

19980813.qrp v01_n182.qrs.980813

Date: Thu, 13 Aug 1998 19:03:09 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1182

QRP-L Digest 1182

Topics covered in this issue include:

- 1) [17422] Solo Spirit Round the World Balloon Flight (<http://solospirit.wustl.edu/index.h>)
by "Ron Polityka" <wb3aal@talon.net>
- 2) [17423] Re: FCC Proposal
by Richard Brittingham <rbritt@visi.net>
- 3) [17424] UPDATE: SOHO Status
by Paul Harden <pharden@aoc.nrao.edu>
- 4) [17425] Re: Solo Spirit Round the World Balloon Flight (<http://solospirit.wustl.edu/index.h>)
by "Ron Polityka" <wb3aal@talon.net>
- 5) [17426] prop forecasts
by "Jerry W. O'Dell" <jwodel@ameritech.net>
- 6) [17427] Buckmaster Call Sign Server
by DENNISMO@aol.com
- 7) [17428] propagation
by ac5ez@webtv.net (Larry B)
- 8) [17429] Tech plus licenses
by mwattcpa@earthlink.net (Marty Watt)
- 9) [17430] Re: MINI PADDLES AND MINI STRAIGHT KEYS
by "John J. McDonough" <jjmcd@tm.net>
- 10) [17431] Elmer 101 sprint
by Roger Hightower <n7kt@earthlink.net>
- 11) [17432] Elmer 101 Series to Appear in Fall QRPP
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 12) [17433] Re: No-qrp
by Frank Grigaliunas <fgrig@iea.com>
- 13) [17434] Re: need info
by "George T. Baker" <w5yr@swbell.net>
- 14) [17435] Re: prop forecasts
by "George T. Baker" <w5yr@swbell.net>
- 15) [17436] Re: Short antennas that work !
by "George T. Baker" <w5yr@swbell.net>
- 16) [17437] Summer QRPP
by cdavis@unlinfo.unl.edu (Charles Davis)
- 17) [17438] QRP-L
by Tim Pettibone <tpettibo@NMSU.Edu>
- 18) [17439] Elmer101 Sprint

- by "Terry Bassett" <mutabut@net66.com>
- 19) [17440] Re: No-qrp
by Ab7wy@aol.com
- 20) [17441] GAP or BUTTERNUT - Which to Choose?
by Mike Duke <K5xu@cris.com>
- 21) [17442] Re: TAC Contest
by kt3a@juno.com (Cameron C.R. Bailey)
- 22) [17443] Re: QRP-L
by Paula Bailey <pmbail01@ox.slug.louisville.edu>
- 23) [17444] Re: Short antennas that work !
by RangerSF5@aol.com
- 24) [17445] Re: GAP or BUTTERNUT - Which to Choose?
by "Greg Breeden" <al0a@hotmail.com>
- 25) [17446] Thank You
by "Jim C" <jimc@msw0.attnet.or.jp>
- 26) [17447] sched for 8/13
by Scott Howell <whowell@hq.nasa.gov>
- 27) [17448] Elmer 101 Sprint
by macstein@cftnet.com (Mac Steinmeyer)
- 28) [17449] 8 Bands QRP on 2 Wheels
by VE3JC - John C <jbcumming@wwdc.com>
- 29) [17450] Re: MINI PADDLES AND MINI STRAIGHT KEYS
by VE3JC - John C <jbcumming@wwdc.com>
- 30) [17451] WINNER Restricted Space Antenna Nite Sprint
by ARDUJENSKI@aol.com
- 31) [17452] DX
by RangerSF5@aol.com
- 32) [17453] DX still open on 20
by RangerSF5@aol.com
- 33) [17454] Re: Longwire help.....pse!!!
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 34) [17455] SW30+: L4, not L3
by gsurrency@juno.com (Gary L Surrency)
- 35) [17456] GAP or BUTTERNUT - Which to Choose?
by "Ken & Linda Burrough" <ne0c@1st.net>
- 36) [17457] RE: No-qrp
by Tracy@bytemark.com (Tracy)
- 37) [17458] Re: Elmer 101 sprint
by we6w@juno.com (Ed Loranger)
- 38) [17459] Elmer101 Sprint
by hayco@ceniai.inf.cu (Hayco)
- 39) [17460] Elmer101: Tuning Range
by "Brian Jones" <brian_jones@uk.ibm.com>
- 40) [17461] elmer sprint
by "K. Babcock" <casey@mufn.org>
- 41) [17462] Re: Elmer 101 Sprint
by Chris Cartwright <ccart@dns.vidtel.com>
- 42) [17463] Schematic Software?

- by Bill Meara <wmeara@erols.com>
- 43) [17464] Mini Paddles
by K4AHK@ix.netcom.com
- 44) [17465] Air Force Anniversary QSO Party (fwd)
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 45) [17466] Elmer Sprint
by "C. Lamar Derk" <n3at@epix.net>
- 46) [17467] Request PIC Programming information.
by "Doyle, Ronald D" <doyler@UH2297P01.DAYTONOH.ncr.com>
- 47) [17468] Re: Mini Paddles
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 48) [17469] Verticals (long)
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 49) [17470] Elmer Sprint
by "Edward A Kwik jr" <eakwikjr@hti.com>
- 50) [17471] Titanic dive live
by "David Maliniak" <dmaliniak@penton.com>
- 51) [17472] You did work a QRP-L member!
by n2tpa@juno.com (Bill d Lazure)
- 52) [17473] VERY Simple schematic program
by n2tpa@juno.com (Bill d Lazure)
- 53) [17474] Elmer Student Activity Night Report
by "David Bixler" <DBIXLER@hs.seneca.k12.mo.us>
- 54) [17475] RE: Elmer 101 sprint
by "Karl Kanalz - Dallas" <kkanalz@optelinc.com>
- 55) [17476] RE: Buckmaster Call Sign Server
by "Kevin Muenzler WB5RUE" <wb5rue@stic.net>
- 56) [17477] Long wires
by ab5uacw@juno.com (Clifton W Sikes)
- 57) [17478] RE: need info
by "Karl Kanalz - Dallas" <kkanalz@optelinc.com>
- 58) [17479] Re: baby linears for QRP rigs
by jim <kw3u@warwick.net>
- 59) [17480] elmer101 sprint:
by "j.w. thornton" <dub@oklahoma.net>
- 60) [17481] August Meeting of the Houston QRP Club
by Ed Manuel <n5em@flash.net>
- 61) [17482] Re: need info
by "Vincent Ferme" <vferme@sprint.ca>
- 62) [17483] K8FF Paddle Kits sold out
by wager@juno.com (James W. Cates)
- 63) [17484] Toroid Winding Chart
by n4so@juno.com (charles k brown)
- 64) [17485] Re: Request PIC Programming information.
by Richard Kendrick <wa7twi@primenet.com>
- 65) [17486] Elmer 101 Survey
by John Bohnert <johnb@elmhurst.edu>
- 66) [17487] Help identify filter, please

by Michael Neverdosky <MichaelN@cycat.com>
67) [17488] elmer101
by "j.w. thornton" <dub@oklahoma.net>
68) [17489] Elmer101
by Bruce Rattray <rattray@gpfn.sk.ca>
69) [17490] Re: Mini Paddles
by dannyayers@juno.com (Danny K Ayers)
70) [17491] Re: Buckmaster Call Sign Server
by Richard Brittingham <rbritt@visi.net>
71) [17492] Thermoelectric power generation
by Bill & Merleigh Jones <kd7s@psnw.com>
72) [17493] elmer101
by "j.w. thornton" <dub@oklahoma.net>
73) [17494] Web page Spoof on Ham Radio.
by Ed Loranger <we6w@qsl.net>
74) [17495] RE: Short Antennas that Work
by "Prof. Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
75) [17496] NC-20: The suspense is killing me..
by Charlie Panek <charlier@lsid.hp.com>
76) [17497] Re: baby linears for QRP rigs
by W7LS <w7ls@blarg.net>
77) [17498] Re: Mini Paddles
by Tim Ahrens <tahrens@inetport.com>
78) [17499] The NorCal 20
by Jerry Parker <jparker@fix.net>
79) [17500] Huntsville Alert
by adams@chuck.dallas.sgi.com (Chuck Adams)
80) [17501] Attenuator for amp: NO!
by "Mike Czuhajewski" <mczuhajewski@evi-inc.com>
81) [17502] Nye 330C Results
by "Marshall Emm" <mgemm@mtechnologies.com>
82) [17503] QRP weekend and no spuds!
by tom whalen <whalen@swcp.com>
83) [17504] NorCal 20 Status
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
84) [17505] Ultimate Antenna Launcher
by Dale Scott <dcscott@us.ibm.com>
85) [17506] SGC 2020 info?
by Robsparks@aol.com
86) [17507] Re: Request PIC Programming information.
by "rrrhensel" <rrrhensel@sprintmail.com>
87) [17508] Re: GQRP - UPDATE: SOHO Status
by DL1FDF/VY1QRP <bauer@student.uni-kassel.de>
88) [17509] Re: No-qrp
by Roger Braker <msebrakr@telepath.com>
89) [17510] Getting started programming PIC's
by applitech@mcg.net (Claton Cadmus)
90) [17511] Re: Attenuator: NO!/Pic Prgmr

- by Stephen Lee <slee@u.washington.edu>
- 91) [17512] 10 meters beacons / Lots of qrp beacon stns
by jaywa5whn@juno.com
 - 92) [17513] Where to get crystals? (cheap)
by Ryan <ryans@willinet.net>
 - 93) [17514] Re: Getting started programming PIC's
by applitech@mcg.net (Claton Cadmus)
 - 94) [17515] Help! Stancor Transformer
by wj5o@juno.com (William H. Hays)
 - 95) [17516] Re: elmer101 audio instability
by gsurrency@juno.com (Gary L Surrency)
 - 96) [17517] Re: Getting started programming PIC's
by Andy Fox <foxes@theriver.com>
 - 97) [17518] Voltage Feeding SCV Loops
by "L. B. Cebik" <cebik@utkx.utcc.utk.edu>
 - 98) [17519] FS: Sierra w/KC1 and Modules
by "Brian K. Short" <bshort@speedchoice.com>
 - 99) [17520] Pacificon is coming!!
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
 - 100) [17521] Re: Elmer Sprint
by bob evinger <revinger@marshallonline.com>

Date: Wed, 12 Aug 1998 18:58:25 -0400
From: "Ron Polityka" <wb3aal@talon.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [17422] Solo Spirit Round the World Balloon Flight (<http://solospirit.wustl.edu/index.h>)
Message-ID: <004301bdc644\$b9d10140\$675445c6@programs>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Check it out!

<http://solospirit.wustl.edu/index.html>

73 & Good DX,
Ron de WB3AAL
Eastern PA QRP #1

Date: Wed, 12 Aug 1998 18:56:27 -0400 (EDT)

From: Richard Brittingham <rbritt@visi.net>
To: cjcole <cjcole@ames.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [17423] Re: FCC Proposal
Message-ID: <Pine.GS0.3.96.980812184712.25524A-100000@ankara.visi.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The Tech Plus people who were licensed after March 1987 will be required to take Element 3B (the other half of Element 3 before 1987). When I got my Tech (plus didn't exist) General Theory and 5 wpm got you a Tech license. Sort of between a Novice and General license. Anyone who got their Tech license before March 1987 can either produce a license stating this (if their license did not expire of course) or get a letter of verification from the FCC stating they have been licensed as a Tech before that date and their license has not lapsed (that is what I did).

My opinion is NOT an official opinion, but from someone who has been there and done that. I went thru this last year when I upgraded and called the FCC and ARRL VE people to get the facts. If anyone was licensed before March 21, 1987 as a Tech and meets the none expired terms, all they need to do is pass 13 wpm. I used Code Quick (it works). I tried LOTS of other ways for MANY years (22 to be exact) to learn it (never took the test though until Code Quick - I know I would not pass). I passed the first time, and yes I do like code now and work QRP with my HW-8 when camping.

Code is not scary as it at first seems, its more like a foreign language. Its fun when you get comfortable with it.

73

Richard W4MCD

Amateur Radio Operator as WD4AEF for 22 years
Now Vanity Call is W4MCD

Date: Wed, 12 Aug 1998 17:18:53 -0600 (MDT)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-1@lehigh.EDU
Cc: GQRP-L List <qrp-1@blacksheep.org>

Subject: [17424] UPDATE: SOHO Status
Message-ID: <Pine.SOL.3.91.980812164005.14272A-1000000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The SOHO (Solar and Heliospheric Observatory) satellite was the most pertinent instrument for measuring solar activity, solar wind and other particle radiation phenomenon used by hams for geomagnetic storm warnings and serverity. As many of you know, SOHO was was declared "lost" on June 25, 1998 following a total communications and orientation failure. Attempts over the past month to communicate with SOHO have been unsuccessful.

Two weeks ago, SOHO was found by transmitting pulses from the giant dish at Arecibo Radio Telescope, with echoes detected by the Deep Space Network antenna in Australia. This confirmed the location of SOHO and that it was in a very slow spin. It was hoped this very slow spin would eventually charge the batteries sufficient to activate the transmitter as the solar panels spun past the sun.

Last week, following a request for telemetry, the first signs of life from SOHO were heard as a few bursts of garbled telemetry were received. While the telemetry contained no useful data, its mere presence indicates the onboard batteries are slowly charging.

Saturday and Sunday, August 8-9, commands were again sent to SOHO to transmit blocks of data, in which SOHO responded by sending 7 sets of data over a one-minute interval. SOHO was then shut down to preserve the batteries. The data received indicated:

- * The spacecraft is not properly oriented, as some temperatures are either colder or hotter than they should be. This also confirms the solar panels are not directly pointed at the sun, making charging the batteries a slow process.
- * The hydrazine fuel, used for orientation control, is likely frozen or partially frozen.
- * One set of batteries is nearly fully charged, while the second set is nearly exhausted.

>From this data, the recovery steps now underway include:

- * Get both sets of batteries fully charged for longer communications sessions. This was done by commanding SOHO to divert solar power charging to the exhausted battery set.
- * Later this week, attempt a small orientation maneuver to point SOHO closer to the sun. This will assume that some unfrozen hydrazine exists at the tops of the tanks.
- * If above orientation control commands successful, then attempt to

point SOHO directly at the sun. This in turn is to fully thaw the hydrazine fuel to gain full orientation control of SOHO.

If the above is successful, with thawed hydrazine fuel and fully charged batteries, then some of SOHO's automatic functions can be enabled to allow full solar tracking, constant communications and power management. Then ... the onboard instruments will be sequentially turned on to check their status. There is some concern that some instruments may be permanently damaged due to extreme cold of space they were exposed to for many weeks. It is hopeful that SOHO may be returned to operational status, even with reduced capabilities. However, it is believed the particle detectors, which provides Earth with 12-18 hours advanced notice of the arrival of particle radiation (which triggers geomagnetic storming) have survived. These instruments onboard SOHO are the ONLY such instruments capable of such advanced warning. The other satellites with these instruments are in near Earth orbit, offering only a few minutes of warning.

There have been three major to severe geomagnetic storms in the past few weeks that were triggered with absolutely no advanced warning. These were caused by coronal mass ejections on the sun that had no visual counterpart. SOHO detects non-optical CME's and can estimate if their trajectory is Earth bound. The loss of SOHO is evident by 3 unexpected geomagnetic storms in as many weeks that disrupted HF communications.

Keep your fingers crossed that SOHO has enough liquified hydrazine fuel to stop her spin and get her facing the sun again. We miss her!

I should mention the SOHO Recovery Team is a joint effort of the European Space Agency (ESA) and NASA. It has been an interesting and educational experience watching how some of the smartest people of these two agencies have managed to find a satellite deader than a rock, and slowly bring her back to life with the few resources available to them. A lesson for us all to never give up!

72, Paul NA5N
National Radio Astronomy Observatory
Socorro, New Mexico

Date: Wed, 12 Aug 1998 19:23:23 -0400
From: "Ron Polityka" <wb3aal@talon.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [17425] Re: Solo Spirit Round the World Balloon Flight (<http://>

solospirit.wustl.edu/index.h
Message-ID: <010001bdc648\$3734e400\$675445c6@programs>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Sorry, I sent it to the wrong list.

73 & Good DX,
Ron de WB3AAL
Eastern PA QRP #1

Date: Wed, 12 Aug 1998 20:00:23 -0400
From: "Jerry W. O'Dell" <jwodel@ameritech.net>
To: qrp-1@Lehigh.EDU
Subject: [17426] prop forecasts
Message-ID: <19980813005731.BOGW13917@[206.141.212.49]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I've been reading propagation forecasts for 50 years now, and it seems to me that, no matter who gives them, they seem inaccurate. Guy says 10 will be open, and 10 is, in fact, deader than I have ever heard it, eg.

Am I nuts? I realize that at one location you really can't tell a great deal, but I am beginning to think that it's a lot like stock market forecasts, or the weather bureau. The latter is very accurate, by the way, simply because weather doesn't change rapidly, so tomorrow will be much like today. _I_ can predict that.

Not knocking anyone or any organization, but I really have heard the best propagation of a given year when someone has said that an awesome geomagnetic storm has occurred, and will knock out everything.

73 jerry w8gnd

Date: Wed, 12 Aug 1998 20:37:20 EDT
From: DENNISMO@aol.com
To: qrp-l@lehigh.EDU
Subject: [17427] Buckmaster Call Sign Server
Message-ID: <61d13d4a.35d23545@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Does anyone have any information as to why Buckmaster at :
<http://www.buck.com/cgi-bin/do_hamcall> is down? Or is it my browser?

TIA es God Bless

72 de Denny AD6EZ <><
PROMISE KEEPER FISTS #4570 / QRP-L #1359 in Goleta, CA
<http://members.aol.com/dennismo>

Date: Wed, 12 Aug 1998 19:45:01 -0500 (CDT)
From: ac5ez@webtv.net (Larry B)
To: qrp-l@Lehigh.EDU
Subject: [17428] propagation
Message-ID: <7906-35D2370D-239@mailtod-121.bryant.webtv.net>
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
MIME-Version: 1.0 (WebTV)

Jerry

You are right, forecasting band openings is much like forecasting the
wx :)

I just check the bands when I have the chance and hope for the best :)

Larry Ac5ez

Date: Thu, 13 Aug 1998 01:08:58 GMT
From: mwattcpa@earthlink.net (Marty Watt)
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.EDU>
Subject: [17429] Tech plus licenses
Message-ID: <35d23ae8.8407675@mail.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: quoted-printable

In re: Tech plus license testing:

Technicians licensed before 1987 did in fact pass the general written =
test,
and thus far have only been required to pass 13 wpm to upgrade to =
general. I
can't speak to what will happen under the new proposal.

--

72 es 73 de Marty, KM7W

Memphis, Tennessee <http://home.earthlink.net/~mwattcpa>
NorCal #2031 -- ARCI #7514 -- QRP-L #0953 -- AK/QRP #098 -- Grid EM65

Date: Wed, 12 Aug 1998 21:56:07 -0400
From: "John J. McDonough" <jjmcd@tm.net>
To: <KF4AXT@prodigy.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [17430] Re: MINI PADDLES AND MINI STRAIGHT KEYS
Message-ID: <199808130114.2989000@is1.tm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

> From: CRAIG A REYNOLDS <KF4AXT@prodigy.net>; owner-qrp-l@Lehigh.EDU
>
> I am looking for a nice mini straight key or paddle and also I was
wondering

Also, try Whiterook. They have a collection of mini paddles and keys
pretty cheap. I have one of their MK-33 paddles, it works, and I use it
mobile. No way would I trade it for my Bencher, but it's cheap, and it
does the job. It's the little red thing KC7RPA is holding on the cover of
the June QST.

See <http://www.west.net/~wpc/mk.html>

As usual, no connection, yadda yadda yah

72/73 de WB8RCR
didileydadidah

Date: Wed, 12 Aug 1998 18:27:17 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17431] Elmer 101 sprint
Message-ID: <35D1DE84.ADE0CD31@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well, I can say I tried. Made one contact at 0114Z with Ed, WE6W before the sparkenboomers hit here and I unplugged. Tough copy with all the QRN 'cause of the storms.

Nice rig, but the audio is a little low. I'll have to work on that, but that first QSO is always fun. Thanks, Ed.

--

72/73, de Roger, N7KT - QRP-L #62 - Mesa, AZ

Date: Wed, 12 Aug 1998 18:23:38 -0700
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.EDU>
Subject: [17432] Elmer 101 Series to Appear in Fall QRPP
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

The complete Elmer 101 Series, all of the lessons, all of the questions and answers, all of the technical tutorials, complete with schematics, drawings and diagrams will be published in the Fall issue of QRPP. This excellent material was collected by Mike Maioriana, with contributions by many of the regulars here on qrp-l. I feel that it is of such high quality and value that it needs to be published for at least 2 very good reasons. One, it will be new material to several hundred QRPP subscribers who don't have net access, and two, it will be available in printed form for study no matter where you are and will be preserved. Some editing will be done to make it flow, and the questions will be inserted into the lessons so that you don't have to look

all over the book for the info. It will be right there where it is easily accessible. For those of you who have just joined QRP-L and don't know, the Elmer 101 Series was an \ educational exercise where several hundred members of the qrp-l purchased the SW40+ from Dave Benson of SW Labs, and then we built the rig in section by section format, with several of the experts on the lists providing guidance. It is a wonderful series, and one of the best tutorials on how and why a radio works that I have ever read. It is a gold mine of information. I am about half way through the information, and already the article is 23 pages, yet it will all be in the Fall issue. Don't worry about it being a 2 or 3 parter, all of the info will be in one issue. (Much handier that way)

If you did not buy one of the original 40+ rigs from Dave Benson, he still has plenty in stock, or at least he did when I visited him this summer. He has them for 20 and 30 meters too, (I have one of each flavor). I believe Dave's email address is bensondj@aol.com. Contact him directly for pricing information and availability.

If you don't subscribe to QRPP, here is the information.

QRPP is published 4 times per year: March, June, September and December. Subscription fee is \$15 per year for US & Canada \$20 per year for DX. There is a 2 year limit to subscription length at one time. In other words, we will not accept a subscription for longer than 2 years.

To join the NorCal QRP Club send your name, call and address to Jim Cates. There is no charge for membership to NorCal QRP Club. To receive QRPP, you must subscribe and pay the fees. Send your money (US Funds ONLY) to:

Jim Cates
3241 Eastwood Rd.
Sacramento, CA 95821

The cutoff date for the fall issue is Sept. 15th. WE MUST have received your check or money order by that time, as we have to give Paul a number of QRPP's to print. 72, Doug, KI6DS

Please make checks and money orders out to Jim Cates, NOT NorCal.

Date: Wed, 12 Aug 1998 18:42:46 -0700
From: Frank Grigaliunas <fgrig@iea.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.EDU>
Subject: [17433] Re: No-qrp
Message-ID: <35D24496.5769@iea.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Michael Maiorana wrote:

> > For a good laugh, check out this link <http://www.qsl.net/kh2d/noqrp.html>

To find out what KH2D's really steamed about, check out this link
<http://www.qsl.net/kh2d/ncitm.html>

--Frank, AB7YT

Date: Wed, 12 Aug 1998 20:55:32 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: slee@u.washington.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17434] Re: need info
Message-ID: <35D24794.11392A4E@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Takes three resistors in a T or PI configuration to step 5 watts down to
1. Design equations in the Handbook. should cost a lot less than \$16.72.

72/73, George didit dit
Amateur Radio W5YR, 52 years and counting!
QRP-L #1373 QRP ARCI #9583 FISTS #4930 ARS #403 ICQ #16819496
AutoPOWER Systems, Fairview, TX (30 Mi. NE of Dallas) 10-X #11771

Date: Wed, 12 Aug 1998 20:57:45 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: jwodel@ameritech.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17435] Re: prop forecasts
Message-ID: <35D24819.84F11FF8@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Prop forecasts are like weather forecasts. 50% chance of scattered showers does NOT mean that 50% of the people will get wet and 50% will not, etc. Forecasts relate to specific paths, of course.

72/73, George didit dit
Amateur Radio W5YR, 52 years and counting!
QRP-L #1373 QRP ARCI #9583 FISTS #4930 ARS #403 ICQ #16819496
AutoPOWER Systems, Fairview, TX (30 Mi. NE of Dallas) 10-X #11771

Date: Wed, 12 Aug 1998 20:59:40 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: RangerSF5@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17436] Re: Short antennas that work !
Message-ID: <35D2488C.414C059E@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Loss in the coils acts to extend the SWR bandwidth.

72/73, George didit dit
Amateur Radio W5YR, 52 years and counting!
QRP-L #1373 QRP ARCI #9583 FISTS #4930 ARS #403 ICQ #16819496
AutoPOWER Systems, Fairview, TX (30 Mi. NE of Dallas) 10-X #11771

Date: Wed, 12 Aug 1998 20:56:19 -0500 (CDT)
From: cdavis@unlinfo.unl.edu (Charles Davis)
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, ki6ds@dpo1.k12.ca.us (Hendricks, Doug)

Subject: [17437] Summer QRPP
Message-ID: <199808130156.UAA09405@unlinfo2.unl.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Doug,

I have not received the summer issue as of yet. Would you please check and see if I am on your mailing list.

Charles Davis, NGOM
Charles Davis
cdavis@unlinfo.unl.edu
Lincoln, NE

Date: Wed, 12 Aug 1998 20:15:36 -0600
From: Tim Pettibone <tpettibo@NMSU.Edu>
To: QRP-L@Lehigh.EDU
Subject: [17438] QRP-L
Message-ID: <1.5.4.32.19980813021536.00688b7c@cnmailsvr.nmsu.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Seems we have some "deaf" members. I recall Chuck asking (telling) those who choose to participate in the QRP-L to refrain from dragging the FCC/ARRL proposal discussion onto the QRP-L. Seemed to be a reasonable request to me and welcome because of the inherent controversy of the subject. While you can maintain all you want that I and others on QRP-L must enter this debate, I thought his plea to take and keep it elsewhere to be very reasonable. QRP-L is one of the last places where the flame wars and other forms of rude behavior are minimized. As others have said better than I, this isn't a democracy. If you think you can run a better QRP forum - go do it. If you want to participate on this one, follow the rules whether you like them or not.

Tim K5OI
Las Cruces, NM

Date: Wed, 12 Aug 1998 21:25:48 -0500

From: "Terry Bassett" <mutabut@net66.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.EDU>
Subject: [17439] Elmer101 Sprint
Message-ID: <003601bdc661\$af76c20\$9e538bce@host.net66.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello All,

Well, I put the SW40+ through its paces tonight, just not successfully. Called CQ Elmer at 7.040 +/- 10 over an hour period. Could hear no takers. Did anyone hear me and just not make it through the noise? So, I will get on each evening for a while and hope to work many of you when conditions permit.

72

Terry KA9TXE Tuscola, Illinois

Date: Wed, 12 Aug 1998 22:32:48 EDT
From: Ab7wy@aol.com
To: qrp-1@Lehigh.EDU
Subject: [17440] Re: No-qrp
Message-ID: <a14e6600.35d25051@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

In a message dated 98-08-12 18:35:30 EDT, you write:

<<

He aslo has a "noqro) page. It says about the same thing as the noqrp page. I think this guys has a screw loose:-) CUL >>

i recognize this guy from one of the other reflectors, i think his page is a sarcastic spoof on the anti-this/ anti-that groups that seem to keep popping up all over the place. i think its funny. hes smart enough to realize that peoples interests are peoples interests and that wont change. i get the joke, i kinda think like that anyway. theres a big anti-cw movement going on right now and its causing a big uproar on the cw reflector (of course). thats why i'll never abandon this list...its nice and quiet here.

anyway, KH2D is not a wacko, just opinionated....with a sense of humor. its just not for everybody. no worries. 73...Adam, AB7WY

p.s. sorry about the repost chuck, its easier than re-typing it. :-)

Date: Wed, 12 Aug 1998 22:39:27 -0400 (EDT)
From: Mike Duke <K5xu@cris.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [17441] GAP or BUTTERNUT - Which to Choose?
Message-ID: <Pine.SUN.4.01.9808122237570.8599-1000000@galileo.cris.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have the opportunity to install either a Butternut HF-6 or a Gap Challenger to replace a fallen antenna. My choice of one of these antennas is based upon the "come and get one" offer to me from a friend who is about to move.

Since the Butternut also covers 30 and 17 meters, I'm considering using it along with elevated radials.

If you have strong feelings for or against either the Gap or the Butternut, or if you have any pointers which will help me do it right the first time, please share them.

72,

Mike Duke, K5XU,
President,
Mississippi Council of the Blind
<http://www.prestridge.com/mcb/>

Date: Wed, 12 Aug 1998 22:39:40 -0400
From: kt3a@juno.com (Cameron C.R. Bailey)
To: n4bp@bc.seflin.org
Cc: wb3aal@talon.net, qrp-1@Lehigh.EDU
Subject: [17442] Re: TAC Contest

Message-ID: <19980812.224020.3526.7.kt3a@juno.com>

(Bob was first place overall winner in the TAC contest.)

Well deserved Bob! Glad you like the plaque. I am sure you have many fine ones too. The plaques were sponsored by the guys from the EPA QRP club. ARCI mugs and mouse pads are being ordered for the first place winners of the Homebrew, QRP, and QRPP categories. Again, sponsored by the EPA QRP club. A rainbow tuner was sent to the winner of the Tactical category, sponsored by the NJ QRP club.

Cameron C.R. Bailey, KT3A
Mount Wolf, Pennsylvania
kt3a@juno.com

On Wed, 12 Aug 1998 13:00:05 -0400 (EDT) Bob Patten <n4bp@bc.seflin.org> writes:

>Got a lovely plaque in the mail today from Cameron for participating
>in
>the TAC Contest. Many thanks Cam! A fun contest and a prize to boot!

>

>

> 73,

> , ' ' ' ,

> Bob Patten, N4BP (0 0) Plantation,

>FL

>-----o00o-()-o00-----

>

> E-Mail: n4bp@bc.seflin.org

> Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>

> Brass Pounder BBS: (954) 472-7715

>

>

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Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 12 Aug 1998 22:46:33 -0400 (EDT)
From: Paula Bailey <pmbail01@ox.slug.louisville.edu>
To: Tim Pettibone <tpettibo@NMSU.Edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17443] Re: QRP-L

Message-ID: <Pine.LNX.3.96.980812224505.24236A-100000@ox.slug.louisville.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On the subject of the thread--

My deepest apologies :P I sent the letter off, shortly before seeing about twenty messages down in my inbox the request not to send any more posts about the FCC thread. :P

hands rolled up newspapers to QRP-L folks You may thwap me on the nose at will. :P

-pb

Date: Wed, 12 Aug 1998 23:03:55 EDT
From: RangerSF5@aol.com
To: w5yr@swbell.net, qrp-l@lehigh.EDU
Subject: [17444] Re: Short antennas that work !
Message-ID: <9640c8c7.35d2579c@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

In a message dated 98-08-12 21:59:55 EDT, you write:

<< Subj: Re: Short antennas that work !
Date: 98-08-12 21:59:55 EDT
From: w5yr@swbell.net (George T. Baker)
Reply-to: w5yr@swbell.net
To: RangerSF5@aol.com
CC: qrp-l@lehigh.EDU (Low Power Amateur Radio Discussion)

Loss in the coils acts to extend the SWR bandwidth.
It works for me and works darn well
Eat your heart out as I worked 9 DX stations in the last half hour on 3 watts.
Wire length,coil loss,cheap coax,traps are no good etc.
I heard it all.
Does it really make a difference when I worked from Japan to the Mid East??
Bob
WA2HOQ

Date: Wed, 12 Aug 1998 20:21:37 PDT
From: "Greg Breeden" <al0a@hotmail.com>
To: qrp-l@lehigh.EDU
Subject: [17445] Re: GAP or BUTTERNUT - Which to Choose?
Message-ID: <19980813032137.14198.qmail@hotmail.com>
Content-Type: text/plain

Mike:

I Owned a Butternut at one time and sold it in a move I made. I'm not really familiar with the GAP but I know Butternut Multiband Verticals are designed to radiate along their entire length: This may allow for the antenna to achieve a little gain on higher freqs. Maybe enough to compensate for any loss. They don't use traps and the Band switching is automatic. Their antennas are designed to work WITH radials. In my opinion this is a plus. Any vertical is only as good as its ground system. Especially if it is not long enough to be resonant and must be loaded in order to achieve resonance.

Many vertical antennas are "sold" with the selling point being "no radials needed". I guess that means they have a super counterpoise. Well I liked mine, and that's the only one I've owned. I know which one would get.

Greg Breeden

AL0A

>Since the Butternut also covers 30 and 17 meters, I'm considering
>using it along with elevated radials.

>

>If you have strong feelings for or against either the Gap or the
>Butternut, or if you have any pointers which will help me do it
>right the first time, please share them.

>

>72,

>

>

>

>Mike Duke, K5XU,

>President,

>Mississippi Council of the Blind

><http://www.prestridge.com/mcb/>

>

>

>

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Thu, 13 Aug 1998 12:22:24 +0900
From: "Jim C" <jimc@msw0.attnet.or.jp>
To: "qrp-1" <qrp-1@lehigh.EDU>
Subject: [17446] Thank You
Message-ID: <001901bdc669\$97dab340\$791a4ca5@jim-s-computer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'd like to thank everyone who answered my question about memory on a keyer.
The response was great!! I am new to Ham and stationed far from home so
this is where I do all my learning.
TNX AGN

Jim Crites
7J7ACM
Misawa Air Base
Japan

Date: Wed, 12 Aug 1998 23:41:54 -0700
From: Scott Howell <showell@hq.nasa.gov>
To: qrp-1@Lehigh.EDU
Subject: [17447] sched for 8/13
Message-ID: <3.0.5.32.19980812234154.007dc100@mail.hq.nasa.gov>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

ok, well seems some folk can't hear or find me. I think this could be do to
being all over the place. So, here's the deal for tomorrow and see if this
works.

Btw, snagged a guy/gal (dont' know) kd4zrd on 40m. Of course with all those
other wonderful ops trying to utilize the bands, I could not copy name, qth
accept possible va, but not sure, and rst might have been 4x9. I gave him a
349, but well ok.

In any event going to stay on one freq and work whoever I can. Going to be
on 7.110 and will just do what I can. Adjacent stations or not. If I can
get your call at least then can get whatever in my usual qrz lookup, but

hope to get at least an rst.

Haven't gotten one yet with the Sierra. Man that rig is HOT!!!!

Will try my very best to be on by 01:30 or no later than 02:00 utc. On Friday 8/14 will be on 7.110-7.115 from 00:30-01:30 and 7.125-7.135 from 01:30-02:30. Now if I haven't gotten any answer to my calls then I'll move up to 7.140-7.145 and stay on after 02:30 until I either fall asleep at the operating position (please excuse any weird stuff coming out of here) or I decide to hit the wrack. WOuldn't want to be calling qc qc ed I've fallen on the table and can't get off the key. Oh, I won't mention that I started screaming when all this noise killed my contact. WOuldn't want you folk to think I act in such a manner, but well better tell before the neighbors do.

cul es 72/73 de n3byy

Fists #5030 es No-Ssb #1000,023

Scott Howell n3byy

Date: Wed, 12 Aug 1998 23:45:53 -0400
From: macstein@cftnet.com (Mac Steinmeyer)
To: qrp-l@Lehigh.EDU
Subject: [17448] Elmer 101 Sprint
Message-ID: <199808130352.XAA06570@renoir.cftnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Well, that was fun anyway. I threw the thing together hurriedly to get on the air.

I tuned it as best I could in the Novice section so I could use my NorCal 40a to check the freqs. QRN was horrible -- nothing new there, so I "cheated" and used the KF4KSM "QRN BUSTER" amp to bump it up to 5 watts through the ZM-2 and infamous attic dipole. I Dialed around 7.115 and had 5 qso's -- but none confirmed as QRP-L members! Each time I called "CQ CQ CQ elmer de KF4KSM" and someone replied... they thought I was ASKING for an elmer!

"I'll help, is this your first QSO?"

"You're doing fine -- good tone" (THAT was helpful!)

"I guess I'm an elmer I help folks out often, what can I do for you?"

Gosh, is my fist THAT bad?!?! After I explained the CQ and the "sprint" I got compliments on the rig and HI HI's. What a hoot! Probably not a point scored but, here's who I chatted with:

W0CH Dave, in MO, QRP and gave me a 569

AC50D Richard, in AR, QRP and gave me a 459

WD4MWR Dave, FL (Using a homebrew VFO with a Drake)

N2TWA Homer, in NJ
N3XRU Richard, MD, gave me a 599 (I could BARELY hear him)

Thanks to all who participated in the class, especially Mike, Glen, and those who asked questions ;-)

-Mac-

73/72 KF4KSM Grid Sq: EL88rd
email: macstein@cftnet.com

Date: Wed, 12 Aug 1998 23:45:43 -0400
From: VE3JC - John C <jbcumming@wwdc.com>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.EDU>
Subject: [17449] 8 Bands QRP on 2 Wheels
Message-ID: <35D26167.7E85BC0B@wwdc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Over the summer I have been tinkering with my bicycle mobile setup. My objective was to effectively mount the QRP+ , Outbacker Perth, mini-paddles and microphone on the mountain bike without compromising riding comfort and safety. Well the pieces are finally coming together - and tonite in a leisurely after-supper ride I worked W4PBL (Frank in Fl) and G3MJX/qrp, Tony on 20 m CW !

Will get pictures and design details on my website soon, but here's the "reader's digest" version:

- rig is mounted in a handlebar bag, angled so the front of the rig is visible and controls accessible without having to take my eyes off the road. I haven't been using earphones - a "deflector" directs the audio from the top-mounted speaker to the rider (a la "his masters voice!"). Although most of my riding is on back roads, I find it surprisingly easy to copy, even in the presence of cars and cows! Leaning forward to reduce drag when going down a hill puts my ears very close to the speaker.

- antenna is mounted on a 1" dia aluminum tube extending from the bike frame and rear pannier rack, about 1' behind the back wheel (led flashing light is also mounted on the end of this tube). Nice thing about this is that I can mount and dismount normally without touching the antenna. Also, the tube extension provides an increased ground plane for the Outbacker (I need all the help I can get in this department!). Although there is some sway in the antenna (the top of

the whip bobs back & forth with every stroke) I hardly notice the extension and antenna are there!

- 7 AH power pack is located in rear pannier.

- Mini-paddles are mounted to the right extension on my handlebars, so my wrist remains on the handlebars as I am transmitting. Some people have used contact switches in each handlebar extension (dit with left thumb, dah with right thumb) which may be marginally safer but not appealing to me.

Some interesting findings so far...

- it's very tough to send good cw when riding on a gravel road

- the dial on the QRP+ is surprisingly rock solid. Frequency does not change even with severe bouncing on bad roads. I had previously designed and built a mechanical stop for the dial, but it's not needed. (BTW I have no front shocks on the bike, which is a dozen years old and worth much less than the equipment it's carrying)

- I can operate most controls with one hand (eg use two fingers on "speed" buttons and thumb on dial, to adjust cw speed "on the fly").

For some changes, I just have to stop and use both hands.

- Changing bands is no problem - a 15 second stop to change taps on the Outbacker, and back on the road.

- Bike mobile qrp is not for the faint of heart or for "unblemished" rigs. The scratches on my field radios show they have character. (I always cringe when I see a 'for sale: trail-friendly radio that has never been outside my environmentally-controlled shack' ad).

- The sight of this bicycle mobile setup, and the sounds of cw as I ride by, have done little to improve the neighbours' assessment of my mental status :>)

Pictures will follow

Others mileage may vary (especially if tires under-inflated)

Vy 73 es 72, JC

VE3JC - JOHN CUMMING

192 WELLINGTON ST. DELAWARE, ON CANADA, N0L 1E0

Date: Wed, 12 Aug 1998 22:06:39 -0400

From: VE3JC - John C <jbcumming@wwdc.com>

To: KF4AXT@prodigy.net

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [17450] Re: MINI PADDLES AND MINI STRAIGHT KEYS

Message-ID: <35D24A2E.C5183BE9@wwdc.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

CRAIG A REYNOLDS wrote:

> Fellas ,
> I am looking for a nice mini straight key or paddle ...

I purchased one of Gil Kost's tiny set of paddles at Dayton, and have been very pleased. No more than 1 1/2" or so square but with the feel of a full size unit. Made of brass and plastic. Heavier and more expensive than the Whiterook Paddles (which I also own and use when light weight is really critical) - but well worth it.

Gil's address is: American Radio QRP MFG Co.
3710 Buckingham Rd.
Baltimore Md. 21207
email: ahber@ix.netcom.com

Standard disclaimers.
Good luck! 73, JC

VE3JC - JOHN CUMMING
192 WELLINGTON ST. DELAWARE, ON CANADA, N0L 1E0

Date: Thu, 13 Aug 1998 00:24:28 EDT
From: ARDUJENSKI@aol.com
To: farnworth@mail01.citylinq.net, qrp-1@Lehigh.EDU, nwq-1@scn.org
Subject: [17451] WINNER Restricted Space Antenna Nite Sprint
Message-ID: <5edf7e64.35d26a7d@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

BOB FARNWORTH, W7CD won the drawing for the BLACK WIDOW fishing pole for the

SLV. The pole is on order and I will send it on when it arrives Bob..

Thanks for all those who participated last month in the RESTRICTED SPACE ANTENNAS. I know I had a blast and hope some of you learned a bit about limited space antlers.

Alan KB7MBI

Date: Thu, 13 Aug 1998 00:28:19 EDT
From: RangerSF5@aol.com
To: qrp-1@Lehigh.EDU
Subject: [17452] DX
Message-ID: <7e42e104.35d26b64@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

DX still rolling in on 20 meters just above the extra band
Bob
WA2HOQ

Date: Thu, 13 Aug 1998 00:41:41 EDT
From: RangerSF5@aol.com
To: qrp-1@Lehigh.EDU
Subject: [17453] DX still open on 20
Message-ID: <a3125b20.35d26e86@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Up to 17 countries on the ARK 20 tonight
Also just worked 9A7C on 3 watts 339 rst
Bob
WA2HOQ

Date: Wed, 12 Aug 1998 23:48:35 -0500
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: ab5uacw@juno.com

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17454] Re: Longwire help.....pse!!!
Message-ID: <35D27023.6049CEC4@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Clif AB5UA,

You didn't say how high your antenna is presently or if you're interested in gain in any certain direction. If you're just looking for good all around performance and if you must feed the antenna on the end I would recommend using open wire line and a tuner at the other end or if you can make it a half wave length (~130'), couple coax to it via a parallel tank circuit on the antenna side and a few turns wrapped around the tanks circuit's coil on the coax side. The parallel tank circuit will roughly resonant at the design frequency of the antenna. Experiment with the turns on the coax side to obtain the best match. I would at least leave a few feet of counterpoise opposite the antenna side of the tank circuit. If you want to make the antenna a long wire, try to keep it an odd multiple of a half wave length and you can still use this circuit. I hope this helps.

73,
Steve Yates
AA5TB
aa5tb@swbell.net
<http://home.swbell.net/aa5tb/>
Fort Worth, Texas

Date: Wed, 12 Aug 1998 21:52:56 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-l@Lehigh.EDU
Subject: [17455] SW30+: L4, not L3
Message-ID: <19980812.215256.10142.3.gsurrency@juno.com>

Gang,

It seems that when I wrote up the documentation of the mods for the SW30+, I inadvertently mis-identified the inductor in the low-pass filter that gets an extra turn.

I should have said that *L4* gets one extra turn, *not* L3. That makes for 16 turns on L4. L3 is still 15 turns.

Try it with 15 turns as specified in the manual. Then, if you want to see what improvement, if any, the extra turn makes - you can easily add it later. In my rig, the extra turn made for a better match and power transfer to both my 50 ohm dummy load and a resonant 30m antenna. The result was several hundred milliwatts additional output with no observed degradation of the spectral purity.

Seems I did the same thing with L3 and L4 in the mods for the SW40+. So if you also have that info, the extra turn is to be added to L4, *not* L3. This is the toroid that is closet to the PA transistor, and that is probably why I identified it as L3 on the schematic, and not L4 as it actually is. The parts placement threw me off! ;-)

72, and sorry for the error.

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 13 Aug 1998 00:45:33 -0400
From: "Ken & Linda Burrough" <ne0c@1st.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [17456] GAP or BUTTERNUT - Which to Choose?
Message-ID: <00cf01bdc67a\$17b52860\$3606f0d1@ne0c.1st.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

That was the question asked by Mike Duke/k5xu. Mike I have had both the Butternut and Gap. The Butternut at Vandenberg AFB in 1983/84 before retireing. I have the GAP (three of them) now. The GAP's cover the whole band except for 75/80 meters and as I remember the Butternut did not. I did use an antenna tuner with the Butternut so the smaller bandwidth did not effect the way I was operating at the time. I did not like the radials needed on the Butternut. The GAP Challenger uses three 25 foot long counterpoise wires and works very well.

You have a hard choise, small bandwidth and radials or full band coverage and three counterpoise wires. Also in a windy area, the Challenger must have guys, I need and have eight guy ropes here in eastern Ohio. At

Vandenberg I could have got away with four.

As I see it, if you use 30 and 17 meters there is no choice, the Butternut does it. Both are good antennas--Good Luck

Ken/ne0c
Flushing, Ohio

Date: Thu, 13 Aug 1998 02:44:18 -0400
From: Tracy@bytemark.com (Tracy)
To: "QRP-L" <qrp-l@Lehigh.EDU>, <fgrig@iea.com>
Subject: [17457] RE: No-qrp
Message-ID: <000101bdc685\$cb4fda40\$16251ad1@titan>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I think this about sums it up...

"If you care about ham radio's future, you need to get involved with the organization of your choice and back them up. Be counted. Don't sit in front of your damn radio and hope for the best, do something to make the best happen, whatever it is that you think 'the best' is."

Jim Kehler KH2D

Thanks for the pointer on the site ... he has a bunch of other neat stuff there also.

Tracy N4LGH
QRP-L #1453

Date: Thu, 13 Aug 1998 03:10:38 EDT
From: we6w@juno.com (Ed Loranger)
To: n7kt@earthlink.net
Cc: qrp-l@Lehigh.EDU
Subject: [17458] Re: Elmer 101 sprint
Message-ID: <19980813.000338.5271.1.we6w@juno.com>

Thank you Roger. It was fun listening for the Elmer crowd and as a non-student I was in Hunt/pounce mode.

The band was very noisy and lots of QRO QSO's nearby on 7040. I checked 7115 +/-; 10.116 +/- but only heard elmer CQ's on 7040.

I worked ab5pc and of course Roger/n7kt.

Heard but not worked: KI5VT/Ka0VJX/KB9EGE/K50N WA5YFY. Gary/WA5YFY rig offset must be off a bit. He QRZ'd me after I decided to go real low on the sideband in hopes of finding his RIT setting....

But the QSB was deep but still great fun.
Congrats to all the sw40+ elmer students!
-Ed Loranger WE6W

72, Ed WE6W QRP/CW only (VP-0). <http://www.qsl.net/we6w>
Enjoying Ham Radio every day! Santa Rosa, CA. (CM88ok)

On Wed, 12 Aug 1998 18:27:17 +0000 Roger Hightower <n7kt@earthlink.net> writes:

>Well, I can say I tried. Made one contact at 0114Z with Ed, WE6W

<snip>

>that first QSO is always fun. Thanks, Ed.

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 13 Aug 1998 03:33:46 -0400 (CDT)
From: hayco@ceniai.inf.cu (Hayco)
To: qrp-1@Lehigh.EDU
Cc: co2ha@jcce.org.cu
Subject: [17459] Elmer101 Sprint
Message-ID: <m0z6rtK-000ApzC@ceniai.inf.cu>
Content-Type: text

Hello All!!!

Tonight, I listened KF4KSM calling CQ on 7115 kHz until 0213 Z. I called him four times at 0223, 0223, 0247 and 0250 Z, but probably he don't copied me. My power was 5 watts on a dipole. At 0232Z he was

a QSO with AC50D. Always, his signals was 559-579 in Havana, Cuba.
Before on 30 meters, at 0152 Z , I had QSO with KK6MC/5 in NM , but
Jim I think no in Elmer Sprint. My power was also 5 watts.
Next weekend I hope been active on NJ QSO Party on 40 meters and may
be on 20 meters.

See you on bands!!!

Frank
C02HA
QRP-L # 1486
hayco@ceniai.inf.cu
co2ha@jcce.org.cu
<http://www.infocom.etecsa.cu/cgi-bin/frc/frcuba.htm>

Date: Thu, 13 Aug 1998 04:21:02 EDT
From: "Brian Jones" <brian_jones@uk.ibm.com>
To: qrp-l@Lehigh.EDU
Subject: [17460] Elmer101: Tuning Range
Message-ID: <199808130821.EAA16314@nss4.cc.Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Mike and Co. - I saw an append a couple of weeks back from Mike worrying
that his elmerites were dropping off. I'm still here but waaay behind.
Just looking at lesson 11.

A question - what is the normal 40m QRP operating range in the US? I know
7.040 is the calling but how much higher do I go. I've found about 33
KHz tuning range with my original C8 in place. I'd like to tune as much
of the European band as possible so 7.000-7.035 would be great (and
calculations show that C7=56pf will probably give me around 7.002-7.036
PERFECT). But I would like not to preclude the opportunity to use this
for US use (if I ever get time on a business trip). I could either
increase C8 to extend tuning range but would like to limit this to reduce
tuning touchiness or either switch in/out capacitance to change the range.
Maybe even see if some sort of socket like a xtal holder would fit C7's
hole then just a simple job of swapping caps.

So what is the maximum normally QRP frequency I should consider

accomodating Statesside? I can then decide which solution might be the best/easiest (change C8 v switch C7).

Thanks (and thanks again to Mike and Co. this has been (is being) a fascinating learning experience)

Brian G0UKB (and maybe one day will get chance to use KB8YKJ)

Brian Jones
Java Technology Centre
HURSLEY MP 146 Ext 246896 (+44 1962 816896)
BEJONES AT WINVMD bejones@hursley.ibm.com

Date: Wed, 12 Aug 1998 22:17:51
From: "K. Babcock" <casey@mufn.org>
To: qrp-1@Lehigh.EDU
Subject: [17461] elmer sprint
Message-ID: <3.0.5.16.19980812221751.401fb3c4@mufn.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Great fun!! I'm always surprised at what one can do with qrp. Was on from 0100 to 0215, worked KB9NUN, KCAJIE, N9KW, WA8RXI and almost got AA0ZZ.

What a blast!

Kent Babcock, N8WVD Arcadia, MI

Date: Thu, 13 Aug 1998 06:04:34 -0400 (EDT)
From: Chris Cartwright <ccart@dns.vidtel.com>
To: QRP Reflector <qrp-1@Lehigh.EDU>
Subject: [17462] Re: Elmer 101 Sprint
Message-ID: <Pine.LNX.3.93.980813053431.358A-100000@dns.vidtel.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 12 Aug 1998, Mac Steinmeyer wrote:

> N3XRU Richard, MD, gave me a 599 (I could BARELY hear him)

Oh sure, you got the 599 but missed my call <grin>. It was Chris N3XRV

and you really were 599 when we QSO'd. Pushed the S-meter up to where the line get thicker :) I heard you in there all night and you were never less than 449 all night, even when the QSB/QRM picked up.

So you might have been on to something when you said the filter needs some work. Rig on this end was an IC735 @ 5W and a "sort of" end fed half wave (winter took it's toll). Probably more like hlf and end fed halfave now...

Also caught WA8RXI, WB4JJJ, and KC8JIE. Got home early (9:15) last night and "made" the time to play radio. Work has been crazy for the past two months. Anyone expecting mail about the DK3 group buy, hang on, I'm getting caught up on the mail! Slowly. 72 es tn timer for the Elmer Sprint.

-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --
-- N3XRV ARRL-VE QRP WAS 28/13(w/c) | <http://dns.vidtel.com/~ccart> --
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

Date: Thu, 13 Aug 1998 09:59:56 -0400
From: Bill Meara <wmeara@erols.com>
To: qrp-1@Lehigh.EDU
Subject: [17463] Schematic Software?
Message-ID: <199808131003.GAA20001@smtp2.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I'm looking for a simple program that will allow me to draw schematics on the computer. I'm looking for one that includes the symbols for tubes. Any suggestions? Thanks,

73 de N2CQR

Bill Meara, Falls Church, Virginia

wmeara@erols.com G-QRP #7965

<http://www.mindspring.com/~johnmb/billm.htm>

http://www.homeusers.prestel.co.uk/g3ycc/n2cqr_1.htm

Date: Thu, 13 Aug 1998 06:44:09 -0400
From: K4AHK@ix.netcom.com
To: qrp-1@mail <qrp-1@Lehigh.EDU>
Subject: [17464] Mini Paddles

Message-ID: <35D2C372.EC8@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

In all of the discussions about paddles and keys, I have not seen a mention of a mini paddle that I have been using for several years.

The paddles, both mini and full size, are beautiful, hand made assemblies by Mike March in Winchester, VA. At the Berryville, VA hamfest, Mike had some of the standard size paddles on display. They are solid brass, highly polished, with silver contacts and red paddles. Tensioning is magnetic.

Although he does not sell through the web, Mike has a web page with a distorted (squeezed) picture of this paddle at <http://www.qsl.net/w4fjj>

He also has an email address at immarch@visuallink.com and will send info and prices on request.

No connection - just a user -

Bill - K4AHK
Burke, VA

Date: Thu, 13 Aug 1998 07:23:05 -0400 (EDT)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: QRP-L List <qrp-l@Lehigh.EDU>
Subject: [17465] Air Force Anniversary QSO Party (fwd)
Message-ID: <Pine.GS0.3.96.980813072134.24114A-100000@larry.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Although I have no provision at the website for short term operating event notices, I am passing this note along, since we have numerous former members of the services among our members. (I was an air traffic controller for the AF in the 1960s myself.) Besides, it would be nice is a QRPer managed to win one or more of the categories.

-73-

LB, W4RNL

1998 Air Force Anniversary QSO Party

In response to an enormous number of requests following the Air Force 50th Anniversary QSO Party in September 1997, the AF Anniversary QSO Party is now an annual event!

It will be held on the third weekend of September, 1998 from 0001UTC on Sept 19th until 2359UTC on Sept 20th. Full rules are at The Razorback Radio Club web site:

<http://ourworld.compuserve.com/homepages/k5xs>

PURPOSE: The purpose of the annual event is gathering on the air as many active and former members of the Air Force as possible for a weekend of fellowship and in remembrance of all those who served.

POINT IDENTIFIERS: Point identifiers will be used to identify participants' Air Force experience. The point values will be determined by subtracting the year the participant entered the Air Force from the year 1998. For example, people who joined in 1947 will have a point value of 51 ($1998-1947=51$) and will identify "/AF51" on CW or digital modes, and "Air Force Fifty-One" on voice. People who joined in 1988 would have a point value of 10 ($1998-1988=10$) and will identify as "/AF10" or "Air Force Ten." Participants without Air Force experience will identify as "/AF1" or "Air Force One."

Participants may use experience in any Air Force component (active, Air National Guard, or Air Force Reserve) to determine their point identifier. Members of our Air Force auxiliary, Civil Air Patrol, may use point identifiers based on when they joined CAP as a cadet or senior member. Previous members of our parent organization, the Army Air Corps, may use a point identifier of "AF51."

MULTIPLIERS: In 1997, final score was determined by totaling all of the point identifiers for all of the stations worked. For 1998, we are adding a multiplier which will be determined by counting the number of different point identifiers worked and multiplying your score by that multiplier. For example, if you work four stations with point identifiers of "AF8," "AF22," "AF8," and "AF4," you would determine your final score by first adding

together all of the point identifiers ($8+22+8+4=42$) and then multiplying that number by three (since you worked three different point identifiers: AF8, AF22, and AF4), for a final total of 126 ($42 \times 3 = 126$). (Note that you can count each identifier only once for the multiplier. So in this example, you can count "AF8" only once as a multiplier, even though you worked two "AF8" stations.) This new scoring scheme should encourage more "hunting" for even the smaller point identifiers, since it will be in the best interest of participants to work as many of the 51 different point identifiers (AF1 through AF51) as possible.

BONUS STATIONS: We will also be awarding point bonuses for working stations operating from the premises of Air Force installations worldwide. All stations (club or individual) operating within the boundaries of an Air Force base will identify the name of the base they are on. For example, K5TYP (the Mississippi winner for 1997) will identify "K5TYP, Air Force 51, Keesler Air Force Base." For each of those stations you work (even if more than one are on the same base), not only will you count their usual point identifiers (and use them to compute the multiplier above), but you will also earn a bonus of 100 points per station to be added to your final score. If you work four stations located on AF bases, you will add 400 points to your score.

SCORING SUMMARY: To summarize how 1998 final scores will be computed, you will:

Step 1: Add the total of all point identifiers of all stations worked

Step 2: Count the number of different point identifiers worked, and multiply your score in

Step 1 by that number (maximum multiplier will be 51)

Step 3: Count the number of stations worked which were operating from Air Force installations, and add 100 points for each of those stations to determine your final score.

A score calculation worksheet is available for download on The Razorback Radio Club web site.

CLUB STATIONS: Clubs may use as their club point identifier the point identifier of any bona fide club member.

CQ's: Contest CQ calls to be given as "CQ AF" on CW and digital modes, and "CQ Air Force" on voice.

Stations may be worked once per band/mode.

FREQUENCIES: Operation is allowed on any authorized frequency, but we will encourage the following frequencies ending in "47" (to celebrate 1947, the year of our formation as a separate Service) as meeting places (e.g.-3547, 3947, 7047, 7247, 14047, 14247, 21047, 21347, 28047, 28447). Exchanges should consist of callsign with point identifiers and signal reports.
(E.G.-CW/Digital: "K5H0G/AF24 DE K5XH/AF1 599 K" Voice: "K5H0G Air Force Twenty-four this is K5XH Air Force 1, you are five by nine, over.")

LOG SUBMISSIONS: Log submissions for awards must include for each contact: the callsign of the station worked, its point identifier, date, time, frequency, and mode. Each page must have point identifiers totaled at the bottom of that page. Each log submission must include on the final page the following:

1. The total of all point identifiers.
2. The multiplier claimed.
3. Bonus points claimed for working stations which are operating from the premises of a U.S. Air Force installation worldwide.
4. Total points claimed.
5. A declaration as to whether the station is competing as a single operator station or a multiple operator station.
6. Signature of the licensee or other participant.

Logs must be received by The Razorback Radio Club not later than October 15, 1998 for award consideration. Logs may be submitted by e-mail (ASCII text file only) to k5hog@aol.com.

AWARDS: Awards for 1998 will include plaques for overall worldwide single and multiple winners, and certificates for high single and multiple operator stations in each country, state,

and province.

We look forward to a fun 1998 QSO party. We hope you'll spread the word and join us. Please contact us (e-mail k5hog@aol.com or k5xs@compuserve.com) or by mail at:

The Razorback Radio Club
8437 Wesley Stinnett Blvd
Chesapeake Beach, MD 20732

Date: Thu, 13 Aug 1998 07:34:23 -0400
From: "C. Lamar Derk" <n3at@epix.net>
To: Low power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [17466] Elmer Sprint
Message-ID: <35D2CF3F.265F@epix.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

What a blast! 13 contacts in 1 hour, 10 minutes! 8 of them were "students". Probably could have been more if the sandman had not arrived when he did!

72 de Lamar

Date: Thu, 13 Aug 1998 07:47:52 -0400
From: "Doyle, Ronald D" <doyler@UH2297P01.DAYTONOH.ncr.com>
To: qrp-1@Lehigh.EDU
Subject: [17467] Request PIC Programming information.
Message-ID: <199808131152.HAA38064@nss4.cc.Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain

I am sure I could look through the archives and get this info but I think it will easier (for me at least) to do it this way.

There was a message on this list in the past that talked about programming PIC chips. I was kind of interested then but had too much stuff going on so didn't save the message. Then I saw an article in the September 1998 'Electronics Now' magazine that gave plans for programming hardware for the PC.

Since my interest is growing I would like some more info. If you have info that you would like to share please e-mail me at the address in my sig line.

Thanks in advance

Ron Doyle, N8VAR qrp-l# 263
Dayton
<N8VAR@Juno.com>

Date: Thu, 13 Aug 1998 13:30:50 +0100
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: K4AHK@ix.netcom.com
Cc: immarch@visuallink.com, qrp-l@Lehigh.EDU
Subject: [17468] Re: Mini Paddles
Message-ID: <199808131230.NAA16921@chuck.dallas.sgi.com>

Bill et.al.,

Thanks for the web address for Mike. I went over and looked. To my surprise the picture that he is using is one that I took and is on my web page under the keys section. :-) Mine is not squeezed. ;-)

The key in the photos is one of the prizes in the 10M QRP-L Foxhunt that ends sometime next year.

FYI

Chuck Adams K5FO Dallas, TX CP-60
<http://reality.sgi.com/adams> adams@sgi.com

Date: Thu, 13 Aug 1998 08:34:07 -0400 (EDT)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: QRP-L List <QRP-L@Lehigh.EDU>
Subject: [17469] Verticals (long)
Message-ID: <Pine.GS0.3.96.980813074021.24114D-1000000@larry.cas.utk.edu>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Unfortunately, recent discussions of the relative merits of sundry commercially available vertical antennas have resulted in a barrage of statements about vertical antennas that are simply not true. I never want to be negative to any individual or to his/her statements, so let me just pass along some notes about verticals.

To be vertical is just how you happen to be positioned. Vertical says nothing about the antenna design or its environmental needs.

A vertical dipole--and any antenna based on dipole principles, such as Yagis, quads, etc.--is a self-complete antenna. In modeling terms, it means one can accurately model it in free space. Such verticals work very well--as well as any dipole, although the patterns of a vertical dipole and that of a horizontal dipole differ. Vertical dipoles do not need ground planes at VHF, where one uses them many wavelengths up in the air. You can load a vertical to make it shorter, usually balancing the load on each side of center. Inductive loading is usually used from the center feedpoint out to about mid-element. Otherwise, and more efficiently, end loading is used in the form of hats or coily lengths of wire, etc. Anything you can do to shorten a vertical dipole, you can also do to shorten a horizontal dipole.

A vertical "monopole" is a $1/4 \text{ } \lambda$ antenna fed at one end. It is incomplete in that configuration. To complete it, we often add a symmetrical horizontal assembly below the feedpoint. Because the assembly is symmetrical, its radiation cancels, leaving only the radiation from the vertical $1/4 \text{ } \lambda$ section. However, the assembly, like an end loading hat, completes the antenna and provides resonance--a feedpoint with negligible reactance. The assembly is the so called ground plane. At VHF, the GP is not a ground, but only the rest of the antenna.

We can use the same loading schemes on $1/4 \text{ } \lambda$ antennas as on dipoles. However, we tend to apply them only to the vertical part and use have the loading components. We could also apply them to the GP elements with equal success, except that if we have four or more spokes to the GP symmetrical assembly, the mechanicals get complex and heavy. We can also, with an elevated $1/4 \text{ } \lambda$ vertical with GP, slope the ground plane elements. We often use this trick to raise the feed Z from 35 to 50 ohms. First, think of this trick as also lowering a dipole feed Z from 70 to 50 ohms. Second, the sloping GP elements now contribute to the radiation, since only the horizontally polarized portion cancels. The vertically polarized portion contributes to the field. So a sloping GP vertical is actually a modified dipole. (But, then, in the end, so is the vertical with GP.)

I have put all this at VHF and way up in the air, because this is where

the 1/4 wl with GP and the dipole show their fundamental kinship best. When we lower the height toward the ground, the interaction of the antenna fields with the ground begin to alter performance--but not the fundamentals of how these antennas work.

A self-resonant vertically polarized antenna, whatever its physical shape, benefits very little, if at all, from a ground plane directly beneath the antenna. Studies of antennas like the half square, the delta, etc., show that no improvement results from doctoring the ground immediately beneath the antenna. Improvements do result from doctoring or changing the ground conditions at a distance from the antenna, the precise distance being a function of the height of the vertically polarized antenna above ground. However, few of us can change the ground conditions several wavelengths away from even a 40 meter vertically polarized self-resonant antenna, let alone for a 160-meter version--except by moving close to the ocean.

The 1/4 wl so-called monopole, however, is another matter. It must have what we call its ground plane to complete the antenna. Even close to ground, the same GP we used at several wavelengths up on VHF must be in place--to complete the antenna. If we place the antenna in contact with the earth, the ground itself will do the completion job, but very poorly and erratically. So we retain the ground plane to control the conditions of the antenna's completion.

The whole subject of GP components (which some call radials) is under intensive study with eventual revisions expected in the ways we treat the subject. Are low HF slightly elevated radials (a foot to a few feet off the ground) able to perform with a few radials like the recommended 120 radials systems used by broadcast antennas and true ground-mounted vertical antenna aficionados? Do vertical dipoles making contact with the ground benefit from more than a set of decoupling wires when we go to a full blown GP system? Answers are not yet definitive on questions like these. However, some of the classic concepts developed in the 1930s by Brown and others and encapsulated in FCC regulations for AM broadcast towers are being studied and potentially revised by today's engineering specialists with vertical antennas.

So please beware of expressing old truisms about verticals as if they were theoretical absolutes. If somebody's multiband vertical dipole works poorly on a particular band, it is not the absence of a GP, but just a poor arrangement for that band, relative to some other more efficient arrangement. If someone else's 1/4 wl vertical with GP (manufacturer or user supplied) does a bad job on a band, it is normally not a function of the GP in use unless one just happens to botch the job completely.

Loading a vertical changes nothing in this. Every vertical antenna that is shorter than self-resonant length (1/4 wl for the GP style, 1/2 wl for the dipole style) is loaded to achieve resonance--or it is operated in a

non-resonant mode with a network matching device to transform the impedance of the non-resonant element to a desired (usually 50-ohm) condition. Some antennas use a combination of each mode. Traps are loads for every frequency of operation below the trap resonant frequency. Combinations of linear and capacitive assemblies on an antenna are often not easily recognized as either loads or matching networks from visual inspection.

These notes are not intended to be definitive, but just an indicator that antennas are as worthy of study as all the circuits in the Elmer 101 series. Parading a few old saws as THE truth about verticals or citing anecdotes about working the rare one make good conversation, but very bad technical advice. I have found it strange that in the QRP community there is almost universal intensive activity to master all the Elmer 101 material, but antennas still seem to breed attitudes more than study. One would think that the QRP spirit of wanting to know why things work like they do would prevail. Even if one is working the world by loading the proverbial bedsprings, it would be nice to know why it is working--as nice as knowing why the VFO is drifting or the receiving RF amp overloading. I hope these notes are a step in making folks want to study a little more about verticals in all their many forms and in all their many types of installations.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off)	(423)	974-7215	
1434 High Mesa Drive	/	\	\	\	----	/\---	(Hm)	(423)	938-6335	
Knoxville, Tennessee	/\	\	\	\	/	/		(FAX)	(423)	974-3509
37938-4443	USA	/	\	\	\	\			cebik@utk.edu	
URL:	http://web.utk.edu/~cebik/radio.html									

Date: Thu, 13 Aug 1998 09:03:09 -0400
From: "Edward A Kwik jr" <eakwikjr@hti.com>
To: mikemo@ibm.net, "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [17470] Elmer Sprint
Message-ID: <35D2E40D.2B0A3135@hti.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I had a ball with the Elmer sprint last night. First contact was VE3DNL. It was his first qso with his SW40. Way cool. My SW40 has no mods and set for 2 watts out. Antenna was my new 105 foot dipole up 40 feet. Qrn got worse the second hour and I needed lots of repeats. It is amazing how well the little thing performs. A BIG thanks to all the Elmers who worked on the project and were patient with all my questions. I learned more than I could have imagined. Total of 16 contacts, 10 students. Log follows:

01:07	VE3DNL	559/579	ON	GLEN	STUDENT
01:14	WA8RXI	559/559	MI	RICK	STUDENT
01:16	N9KW	559/559	IL	JOHN	STUDENT
01:18	N8WVD	569/-	MI	KENT	NR 1605
01:22	K8GZ	559/579	OH	KAY	STUDENT
01:44	WB4JJJ	569/589	VA	AL	STUDENT
01:52	N3AT	579/559	PA		STUDENT
02:01	KB9NUN	559/559	IL	KEVIN	STUDENT
02:09	K0EVZ	599/539	MN	DOC	2W
02:15	AA0ZZ	339/-	MN	CRAIG	STUDENT
02:28	AA1NI	339/339	NH	PAUL	STUDENT
02:32	N4ROA	339/539	VA	DAN	NR 970
02:36	N9DD	559/339	IN	TOM	4W
02:42	N2TPA	330/-	NY	BILL	NR 1634
02:48	N3XRV	559/339	MI	CHRIS	NR 655
02:54	KT4FJ	339/449	VA	MIKE	STUDENT

Points= 10 students x 5 + 6 qrp-1 x 1
50+6
56 total points

Date: Thu, 13 Aug 1998 09:22:53 -0400
From: "David Maliniak" <dmaliniak@penton.com>
To: qrp-1@Lehigh.EDU
Subject: [17471] Titanic dive live
Message-ID: <8525665F.004916AA.00@mail.penton.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

FYI: An item in yesterday's New York Times reported that on Sunday night, the Discovery Channel will carry live transmissions from a dive on the Titanic wreck. Among the goals of that dive, so the article said, will be finding and recovering the ship's Marconi radio.

Could this be the ultimate radio collectible?

72, David N2SMH
Glen Rock, NJ

ObQRP: Well, maybe it ain't QRP, but it ain't ARRL/FCC stuff, either...

Date: Thu, 13 Aug 1998 09:07:19 -0400
From: n2tpa@juno.com (Bill d Lazure)
To: Macstein@cftnet.com
Cc: qrp-1@Lehigh.EDU
Subject: [17472] You did work a QRP-L member!
Message-ID: <19980813.091753.7686.1.N2TPA@juno.com>

Mac,

You didn't work N2TWA during the sprint, you worked N2TPA. I repeated my call a dozen times, but you always came back with the wrong one. I sent you the sprint info, including my QRP-L number, but I guess the QRN was too bad.

Be happy, you got one after all.

Bill Lazure
N2TPA
QRP-L# 1634
Syracuse, NY

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 13 Aug 1998 09:06:35 -0400
From: n2tpa@juno.com (Bill d Lazure)
To: wmeara@erols.com
Cc: qrp-1@Lehigh.EDU
Subject: [17473] VERY Simple schematic program
Message-ID: <19980813.091753.7686.0.N2TPA@juno.com>

Bill,

Although it's not designed specifically for this, COREL Flow has 10 or 12 electronic symbol libraries. I believe the "ELECUC" libraries contain tubes. I've used Corel alot to make simple schematics, and it's a joy compared to the professional software. AND, if you can't find the symbol you're looking for, it's very easy to make your own and add it to your personal library.

Bill Lazure
N2TPA
QRP-L#: 1634
Syracuse, NY

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 13 Aug 1998 08:24:00 -0600
From: "David Bixler" <DBIXLER@hs.seneca.k12.mo.us>
To: qrp-l@Lehigh.EDU
Subject: [17474] Elmer Student Activity Night Report
Message-ID: <41EF9BC574F@hs.seneca.k12.mo.us>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Hello gang:

Well, conditions here in southwest Missouri were not optimum for QRP-L student hunting last night. Had the typical summertime high static level on both 40 and 30 meters. Despite this, managed to work four students on 40 meters, including one in the N/T band. Never heard any students on 30 although there were a couple of QRP'ers copied there.

Here is the W0CH log:

CALL	QTH	FREQ
WA5YFY	Oklahoma	7040
WA8RXI	Michigan	7040
KF4KSM	Florida	7113 (N/T Band) Good fist Mac!
N9KW	Illinois	7040

All stations sounded good. Congratulations to all on getting your new SW+40 rig on the air. Nice rig!

72, Dave

David Bixler W0CH - EI4VNN
Seneca, MO
QRP: Minimum power, maximum fun!

Date: Thu, 13 Aug 1998 8:29 -0600
From: "Karl Kanalz - Dallas" <kkanalz@optelinc.com>
To: "Roger Hightower" <n7kt@earthlink.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [17475] RE: Elmer 101 sprint
Message-ID: <25C4E1F9@optelinc.com>

Although I'm not an "Elmer101" participant, I am "into" QRP, so I tried listening around all the recommended freqs on 40M and 30M, but didn't hear *ANYONE* that seemed to be "in the contest". In fact, at my home in the country, both bands sounded pretty "flat".

Maybe I can be more successful in the NEXT contest.

Karl Kanalz - W8TIF/5 - McKinney, TX

From: Roger Hightower
To: Low Power Amateur Radio Discussion
Subject: Elmer 101 sprint
Date: Wednesday, August 12, 1998 12:27PM

Well, I can say I tried. Made one contact at 0114Z with Ed, WE6W before the sparkenboomers hit here and I unplugged. Tough copy with all the QRN 'cause of the storms.

Nice rig, but the audio is a little low. I'll have to work on that, but that first QSO is always fun. Thanks, Ed.

--
72/73, de Roger, N7KT - QRP-L #62 - Mesa, AZ

Date: Thu, 13 Aug 1998 08:33:27 -0500
From: "Kevin Muenzler WB5RUE" <wb5rue@stic.net>
To: <DENNISMO@aol.com>, "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [17476] RE: Buckmaster Call Sign Server

Message-ID: <19980813133325834.AAA202@muenzlerk>

It's down...

Try this one <http://www.qrz.com/directory.cgi>

Kevin, WB5RUE

> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU
> [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of
> DENNISMO@aol.com
> Sent: Wednesday, August 12, 1998 7:37 PM
> To: Low Power Amateur Radio Discussion
> Subject: Buckmaster Call Sign Server
>
>
> Does anyone have any information as to why Buckmaster at :
> <http://www.buck.com/cgi-bin/do_hamcall> is down? Or is
> it my browser?
>
> TIA es God Bless
>
> 72 de Denny AD6EZ <><
> PROMISE KEEPER FISTS #4570 / QRP-L #1359 in Goleta, CA
> <http://members.aol.com/dennismo>
>
>

Date: Thu, 13 Aug 1998 08:38:12 -0500
From: ab5uacw@juno.com (Clifton W Sikes)
To: qrp-l@Lehigh.EDU
Subject: [17477] Long wires
Message-ID: <19980813.083822.6734.7.ab5uacw@juno.com>

Boy, this group is fantastic! I've had lots of good information offered, and looks like I will be stringing wire, now that the temps have dropped below 105 F. The answer is; just try it and see what works. We are VERY fortunate to have the knowledgable people on this list. L.B. is a national treasure!!!!!!

Thank you all,

Clif AB5UA

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 13 Aug 1998 8:56 -0600
From: "Karl Kanalz - Dallas" <kkanalz@optelinc.com>
To: "patrick obrien" <bkobie@webtv.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [17478] RE: need info
Message-ID: <F0724AF5@optelinc.com>

Patrick,
You could also *BUILD* yourself an attenuator using some non-inductive (carbon) resistors. Consult the ARRL handbook for details on "attenuators" or "pads".... the book will tell you how to calculate AND construct attenuators!

Karl K. - W8TIF
McKinney, TX

From: patrick obrien
Subject: need info
Date: Wednesday, August 12, 1998 4:00PM

on the new vectronics linears 1 watt in 20 out...we want to run approx 3-5 watts in...what do i change t

Date: Thu, 13 Aug 1998 09:56:49 +0000
From: jim <kw3u@warwick.net>
To: k7gt@qsl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17479] Re: baby linears for QRP rigs
Message-ID: <35D2B861.74F8@warwick.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Allan Taylor K7GT wrote:

>

> A recent post mentioned a small linear(?) amplifier for following QRP
> rigs. Could the poster (or others?) direct me to a source of information
> on these? Vectronics? (I looked there and they only had BIG amps).
>
> --

Allan check out pg 476 of techamerica catalog(if ya need one
go to www.techam.com or 1800-877-0072 to get one) 1-2w in
and 20 out. it is a vectronics.

the catalog has lotsa nice referance info for builders
and is free.

72 Jim

Date: Thu, 13 Aug 1998 09:10:53 -0500
From: "j.w. thornton" <dub@oklahoma.net>
To: qrp-l@Lehigh.EDU
Subject: [17480] elmer101 sprint:
Message-ID: <3.0.3.32.19980813091053.00b3aa0c@oklahoma.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hey Gang: Some very tuff condx in Okla for this fun lil run. Did manage
to squeak out 10 QSO's, however, QRN got the QRP-L number on a couple. I
could hear several of the students calling, but very weak, and QRN was
horrific. Worked 5 of the students. The SW-30 gave a good account of
itself, & is a fun lil rig to operate. All in all, a fun coupla hours.
Thanks to Mike M., Dave B., and all the elmers for putting this show on the
road. "72"

J. W. (Dub) Thornton WA5YFY
Minco, Okla. 73059

Date: Thu, 13 Aug 1998 08:47:59 -0500
From: Ed Manuel <n5em@flash.net>
To: qrp-l@Lehigh.EDU
Subject: [17481] August Meeting of the Houston QRP Club
Message-ID: <3.0.5.32.19980813084759.008daca0@pop.flash.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gang,

Hard to believe but the third Saturday is upon us.

The next regular meeting of the Houston QRP Club will be held on Saturday morning, 8/16/98 from 9am to 11am. The location will be in the Community Room of Merchant's Bank, located on Woodway, just east of Sage Road. This is only a few blocks west of the 610 loop, north of the Galleria. There will be several of us monitoring 146.700 in case you need help.

Bring something to show the rest of us. Bring items for sale or trade. You might even post a note about what you will have with you so we know if we need to bring money!

Out of town visitors are always welcome.

See you there.

Ed Manuel, N5EM
Houston, Texas
n5em@amsat.org
n5em@flash.net

Date: Thu, 13 Aug 1998 10:17:44 -0400
From: "Vincent Ferme" <vferme@sprint.ca>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [17482] Re: need info
Message-ID: <00dd01bdc6c5\$256e3b40\$b71205d1@frsswilap04284.callnetcanada.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

And if you add a couple of DPDT switches you end up with a variable attenuator, nice for testing.

73/72 de Vince, VE3VFN

>You could also *BUILD* yourself an attenuator using some
>non-inductive (carbon) resistors. Consult the ARRL handbook

Date: Thu, 13 Aug 1998 07:32:12 -0700
From: wager@juno.com (James W. Cates)
To: qrp-1@Lehigh.EDU
Subject: [17483] K8FF Paddle Kits sold out
Message-ID: <19980813.073214.4390.72.wager@juno.com>

Thanks to everyone who kept this club project from being a "NorCal Flop."

jim, WA6GER, for NorCal

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Date: Thu, 13 Aug 1998 10:37:54 EDT
From: n4so@juno.com (charles k brown)
To: qrp-1@Lehigh.EDU
Subject: [17484] Toroid Winding Chart
Message-ID: <19980813.143310.7679.0.n4so@juno.com>

Mike's Toroid Winding Chart calculates length of wire and
total inductance for homebrewing toroids.
Ask for "toroid.txt" file. Text file is on this computer/
n4so@juno.com.

Ken/ N4SO/ Mobile, AL EM50tk

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Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 13 Aug 1998 07:45:23 -0700
From: Richard Kendrick <wa7twi@primenet.com>
To: doyley@UH2297P01.DAYTONOH.ncr.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [17485] Re: Request PIC Programming information.
Message-ID: <35D2FC03.707E041F@primenet.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ronald,

Microchip will give you, for free, a CD rom that contains a complete selection of technical literature on all the PIC chips, memory devices, and software to program the various products. You can call them at (606) 786-7200 or order from www.microchip.com.

73,

Richard Kendrick N7NT
wa7twi@primenet.com

Date: Thu, 13 Aug 1998 10:02:37 -0500
From: John Bohnert <johnb@elmhurst.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17486] Elmer 101 Survey
Message-ID: <35D3000D.2688D19B@elmhurst.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I am completing the collating of 22 survey responses which include the comments of several non-participants. I plan to 'publish' the survey on Monday, August 17 in two segments (due to length). I began with the idea of trying to isolate short phrases (ala the QST posting of contest results). After reading several surveys, the richness of the commentary would be lost, so I have included the complete response. The sources of the comments are anonymous.

If you were/are a participant in the Elmer 101 and wish to complete the survey, please respond by Sunday, August 16.

Finally, I just read on QRP-L that QRPP will include "all" of the lessons, questions, answers...etc in an upcoming issue. The survey responses support the wisdom of this editorial decision in terms of the value of this activity for amateur radio and the world of QRP.

72 John N9KW QRP-L 1257 Elmhurst, IL

Date: Thu, 13 Aug 1998 10:53:16 -0400
From: Michael Neverdosky <MichaelN@cycat.com>
To: qrp-l mailing list <qrp-l@Lehigh.EDU>
Subject: [17487] Help identify filter, please
Message-ID: <35D2FDDC.3AD436D6@cycat.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I am trying to find info on a filter I picked up last night.

It is labled;

UNIT BANDPASS FILTER
AIRPAX PART NO. BPS18/A-13
SERIAL NO. 5B8004

AIRPAX
FORT LAUDERDALE, FLORIDA

It is a passive filter containing 5 toroids and several caps.

I wonder if anybody knows any details about this thing?
Like center freq, BW, impeadence, etc??

thanks

michael N6CHV (in central Florida)

Date: Thu, 13 Aug 1998 09:54:05 -0500
From: "j.w. thornton" <dub@oklahoma.net>
To: qrp-l@Lehigh.EDU
Subject: [17488] elmer101
Message-ID: <3.0.3.32.19980813095405.00b3ccec@oklahoma.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hey Gang: Been having a problem with my SW-40 for some time, but it took the Elmer Sprint to really nail it down and get me off dead center. I surely could have used either the SCAF or MFJ DSP filter to get rid of some of the QRN.

Any time I hook my SW-40 to any kind of amplified speaker setup, ie: MFJ DSP filter, SCAF filter, St Louis speaker ampliflier, it soon goes into

oscillation. Makes a terrible noise thru whatever speaker it is hooked to.
I can run it with 8ohm headphones with no problems, and it drives the MFJ
Cleartone speaker with no oscillation problems, tho audio output is a bit low.

Rig is not totally stock, as I have implemented some of Gary Surrency's
suggestions to up the power output.

D-13 swapped out for less voltage drop. Used a junkbox diode marked
RGP-150-023 8532 rated 100 volts, 1.5amp, & shows only .23 volts drop.
Just to assure myself, I swapped them back, same problem exists, so went
back with the RGP diode.

C-8, added a 47pf NPO to bottom of board to give 60K bandspread, & set it
for 7.000 to 7.060 by compressing/spreading turns of L-1.

Q-5, changed to a MPS-2n2222 (gained about .5watt)

L-4, Compressed windings for max power output. (adding 1 turn gave same
results)

C-1, added a 22pf NPO cap on bottom of board to allow T-1 to peak. It had
been showing improvement when it bottomed out.

R-9, paralleled a 3meg resistor on bottom of board for louder sidetone,
but went back to headphones and took resistor off. Its not needed for
headphone use.

I think that is all the "tweaking" I have done. Any ideas where to look
for this oscillation problem?

"72"

J. W. (Dub) Thornton WA5YFY
Minco, Okla. 73059

Date: Thu, 13 Aug 1998 09:06:12 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-1@Lehigh.EDU>
Subject: [17489] Elmer101
Message-ID: <Pine.SOL.3.91.980813084830.23737A-100000@gpfn1.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Even though I don't have my 40+ finished, I still consider myself an Elmer101 student.....I *will* get it finished and I *will* learn in the process...I've already learned from the Elmer101 postings.....the short Saskatchewan summers, vacation, family things, house repairs, painting, wearing shorts, barbecuing, yada,yada,yada take the top priorities in order to beat winter which is coming once again all too soon...this is EXACTLY why we *have* to wait until the snow flies to do our antenna "stuff" here in the Great White North...HI HI...I was able to turn the rig on with 6 components mounted and worked 500 Elmer students during the last 40 minutesHO! HO!.....well, not really.....but I did get on with my "other" rig for the last 40 minutes of the sprint and like many others reported, my ears were being blasted with big QRN...but I did manage to work WA5YFY and that was that...so Saturday we start building a double garage at my daughter's house...and so it goes eh!?...72 - Bruce(VE5RC+VE5QRP)
"QRP! How sweet it is!"

Date: Thu, 13 Aug 1998 10:24:59 DST
From: dannyayers@juno.com (Danny K Ayers)
To: qrp-1@Lehigh.EDU
Subject: [17490] Re: Mini Paddles
Message-ID: <19980813.102752.-169161.5.dannyayers@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

On Thu, 13 Aug 1998 13:30:50 (Chuck Adams) writes:

>To my surprise the picture that he is using is one that I took
>and is on my web page under the keys section. :-) Mine is not
>squeezed. ;-)

Oddly, if you save the squeezed March picture to your harddrive and view it with a graphics viewer, it is NOT squeezed anymore.

72/73,
Danny -WX4P
Huntsville, AL

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 13 Aug 1998 11:31:24 -0400 (EDT)
From: Richard Brittingham <rbritt@visi.net>
To: DENNISMO@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17491] Re: Buckmaster Call Sign Server
Message-ID: <Pine.GS0.3.96.980813113049.5010A-100000@ankara.visi.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I could not use it either this morning. Try www.qth.com

its my backup site that I use

Amateur Radio Operator as WD4AEF for 22 years
Now Vanity Call is W4MCD

Date: Thu, 13 Aug 1998 08:54:19 -0700
From: Bill & Merleigh Jones <kd7s@psnw.com>
To: qrp-l@Lehigh.EDU
Subject: [17492] Thermoelectric power generation
Message-ID: <3.0.5.32.19980813085419.007ba170@mail.psnw.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Friends,

Not too long ago there was a thread about alternative methods of generating electricity. My learned friend, William J. Orr, VE3CRN, picked up on this and did a little research at the library in Hamilton, Ontario. I wanted to share what he found with those interested in thermoelectric power generation.

Mr. Orr wrote:

A while ago, I took a look (via the Web) at postings to QRP-L, and found that someone had started a thread on thermoelectric power generation, during which thread someone mentioned a hazy recollection of reading about a USSR lamp which had thermocouples installed on it, but, as I recall, no-one could remember just what the lamp used for the thermocouples. FWIW, I'm transcribing a portion of a text in which the

Soviet lamp's name and thermocouple type is described

The textbook's title: "Direct Generation Of Electricity."

Edited by: K.H. Spring
British Railways Board, London, England.

Copyright 1965, by Academic Press, Inc. (London), Ltd.,

U.S. Edition published by: Academic Press, Inc.
111 Fifth Avenue
New York, NY, 10003

Beginning of transcription from page 325 (Chapter "Thermoelectric Generation"):

5.5.3 Practical Generators

The earliest type of generator constructed on an appreciable scale in the 1950s was that made in the USSR (the famous "Ioffe lamp," as it was called) using zinc antimonide as the p-type material, with a metal as the second junction material. Later, the performance was greatly improved by the use of bismuth telluride-bismuth selenide alloys as the n-type component. As indicated previously, these alloys may have higher energy gaps than bismuth telluride, in which case they could be used at higher temperatures. The theoretical junction efficiency between 300 degC and 0 degC would be about 5%. Generators of this type weighing about 50 lb give 100 W output, with about 1 W from each thermojunction.

More recently, generators have been made using lead telluride as the n-type component. It is possible to dope lead telluride p-type, and to use this as the other component, but p-type material tends to be brittle, and in any case better performance can now be obtained using germanium telluride containing a small amount of bismuth. Junctions of this type can be used at 500 degC, and the theoretical junction efficiency for lead telluride-germanium telluride between 500 degC and 0 degC is near 12%. The power/weight ratio for such a generator is 10-15 W/lb. Junctions of this type have been used in the USA in conjunction with a radioactive heat source to provide a generator for use in space vehicles. With conventional heat sources, several 500-W generators have been built satisfactorily and one experimental 5-kW generator.

End of transcribed extract from the text.

=====
Bill Jones - KD7S
reply to kd7s@psnw.com

<http://www.psnw.com/~kd7s>

=====

Date: Thu, 13 Aug 1998 10:18:42 -0500
From: "j.w. thornton" <dub@oklahoma.net>
To: qrp-1@Lehigh.EDU
Subject: [17493] elmer101
Message-ID: <3.0.3.32.19980813101842.00b46138@oklahoma.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hey Gang: Been having a problem with my SW-40 for some time, but it took the Elmer Sprint to really nail it down and get me off dead center. I surely could have used either the SCAF or MFJ DSP filter to get rid of some of the QRN.

Any time I hook my SW-40 to any kind of amplified speaker setup, ie: MFJ DSP filter, SCAF filter, St Louis speaker amplifier, it soon goes into oscillation. Makes a terrible noise thru whatever speaker it is hooked to. I can run it with 8ohm headphones with no problems, and it drives the MFJ Clearitone speaker with no oscillation problems, tho audio output is a bit low.

Rig is not totally stock, as I have implemented some of Gary Surrency's suggestions to up the power output. My max power out is just over 4W, I have it set to 3.5W out. Sig sounds very clean, and get good sig reports.

D-13 swapped out for less voltage drop. Used a junkbox diode marked RGP-150-023 8532 rated 100 volts, 1.5amp, & shows only .23 volts drop. Just to assure myself, I swapped them back, same problem exists, so went back with the RGP diode.

C-8, added a 47pf NPO to bottom of board to give 60K bandspread, & set it for 7.000 to 7.060 by compressing/spreading turns of L-1.

Q-5, changed to a MPS-2n2222 (gained about .5watt)

L-4, Compressed windings for max power output. (adding 1 turn gave same results)

C-1, added a 22pf NPO cap on bottom of board to allow T-1 to peak. It had been showing improvement when it bottomed out.

R-9, paralleled a 3meg resistor on bottom of board for louder sidetone, but went back to headphones and took resistor off. Its not needed for headphone use.

I think that is all the "tweaking" I have done. Any ideas where to look for this oscillation problem?

"72"

J. W. (Dub) Thornton WA5YFY
Minco, Okla.

Date: Thu, 13 Aug 1998 16:29:00 +0000
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17494] Web page Spoof on Ham Radio.
Message-ID: <35D3144C.4D7@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

This guy is hilarious. Well written. What a gas!
<http://www.qsl.net/kh2d/cwtips.html>

Taken with a grain of salt? Use the whole salt shaker :)

-Ed

--

72, =ED, WE6W/qrp CW ONLY; Santa Rosa, CA (CM88ok)
<http://www.qsl.net/we6w> (Enjoying Ham Radio every day.)

Date: Thu, 13 Aug 1998 12:41:42 -0300
From: "Prof. Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
To: <qrp-l@Lehigh.EDU>
Subject: [17495] RE: Short Antennas that Work
Message-ID: <01bdc6d0\$deafc3c0\$07199e03@inforhc>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

OF COURSE..... the resistive component of the loading coil
wire is effectively lowering the Q of the antenna... in other

words it help to provide more bandwidth.

Now that I am talking about bandwidth, let me make it clear that in the case of the 14 MHz dipole which is about the size of a 10 meter antenna, the bandwidth between the 2 to 1 SWR points may cover half of 20 meters or even more, depending again on how the coils are built, proximity of the antenna to other objects etc...

Some commercial antennas INSERT RESISTANCE at some points along the antenna, precisely to increase bandwidth at the expense of power loss...

What applies to a shortened dipole may be translated to a 0.25 wavelength vertical, except that losses tend to be higher, as NOT PERFECT GROUND is now present.

You can make a very nice low angle radiator which is rather short for 20 meters... Here is the recipe...

1. You want the antenna length to be about 120 electrical degrees... (that's 0.33 wavelength)
2. Make the radiator about 0.16 wavelength... and use a combination of capacitive Top Loading and a coil located about halfway of the vertical element...
3. This antenna's electrical parameters are measured rather easily... you want 0.33 wavelength electrical ... right ? SO... you calculate at what frequency the antenna will resonate at 0.25 wavelength (quarter wave)... forget about antenna bridge etc... just use GRID DIP, well calibrated and lightly coupled to antenna base..
4. Once you have achieved the 0.33 wavelength electrical degrees, feeding the antenna is about the easiest thing you can think... just insert a variable capacitor between the base of the antenna and the center of the coaxial cable...

The antenna will match pretty nicely !!!

Used this setup many years to work on 20 meters, using a bamboo cane supporting two wires separated about three inches (to make the antenna element somewhat more broadband), and a capacitive loading made of 6 spokes of about 30 centimeters each...

Then the coil was located half way up... coil needed no tuning once you found that it loaded the antenna for 0.25 wavelength resonance at the right frequency... of course, the antenna will be 0.33 wavelength at 20 meters, so two things will happen...

R component of impedance at base will be higher than the 30 to 36 ohms.... very near 45 to 50 ohms actually, and... the X component can be nicely canceled with a capacitor in series...

Same technnique applies for antennas for 80, 40, 30, 15 , 12

and 10 meters... have never tested this above 10 meters !

Arnie Coro
C02KK
Radio Habana Cuba
PO Box 6240 Habana Cuba
e-mail: arnie@radiohc.org
e-mail inforhc@mail.infocom.etecsa.cu
Phone: 53 -7 - 814243

Date: Thu, 13 Aug 1998 10:06:33 -0700
From: Charlie Panek <charlier@lsid.hp.com>
To: qrp-1@Lehigh.EDU
Subject: [17496] NC-20: The suspense is killing me..
Message-ID: <35D31D19.F97@lsid.hp.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well it's been almost 2 weeks since the gates opened for the Norcal 20. Early last week, Doug or Jerry or someone posted that over 200 orders had been received on the first day, so I thought that since I didn't get a "round tuit" until 8/4, my order didn't stand a chance.

However, unless I missed something, both this list and the Norcal web site have been silent about it.

So the question is this: Are orders still being taken for the Norcal 20? Have we hit 500 yet? Will we get our checks mailed back to us if we didn't get in?

Sitting on the edge of my seat...

72,
Charlie
KX7L

--

Charlie Panek
mailto:charlier@lsid.hp.com

Hewlett Packard Company
Lake Stevens Division
Everett, Washington

Date: Thu, 13 Aug 1998 10:11:05 -0700
From: W7LS <w7ls@blarg.net>
To: kw3u@warwick.net
Cc: qrp-1@Lehigh.EDU
Subject: [17497] Re: baby linears for QRP rigs
Message-ID: <35D31E29.5CE0@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi. Looks like the Ramsey kits in a different enclosure. Is that really what they are?

Tnx/73 de Jim, W7LS

jim wrote:

>
> Allan Taylor K7GT wrote:
> >
> > A recent post mentioned a small linear(?) amplifier for following QRP
> > rigs. Could the poster (or others?) direct me to a source of information
> > on these? Vectronics? (I looked there and they only had BIG amps).
> >
> > --
>
> Allan check out pg 476 of techamerica catalog(if ya need one
> go to www.techam.com or 1800-877-0072 to get one) 1-2w in
> and 20 out. it is a vectronics.
> the catalog has lotsa nice referance info for builders
> and is free.
> 72 Jim

Date: Thu, 13 Aug 1998 12:15:50 -0500
From: Tim Ahrens <tahrens@inetport.com>
To: dannyayers@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [17498] Re: Mini Paddles
Message-ID: <35D31F46.DF706FDF@inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Danny - this only happens if I use PKZIP to compress the file. :->

Tim W5FN

> Oddly, if you save the squeezed March picture to your harddrive and
> view
> it with a graphics viewer, it is NOT squeezed anymore.
>
> 72/73,
> Danny -WX4P

Date: Thu, 13 Aug 1998 10:53:50 -0700
From: Jerry Parker <jparker@fix.net>
To: qrp-l@Lehigh.EDU
Subject: [17499] The NorCal 20
Message-ID: <2.2.32.19980813175350.00cfdd18@fix.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

OK,

everyone relax. NorCal has "NorCal 20 Kits".

Doug or Jim will announce when they are all gone.

That should put the question to rest.

Enjoy,,,72,,,Jerry...WA6OWR...K

Date: Thu, 13 Aug 1998 18:37:21 +0100
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: qrp-l@Lehigh.EDU
Subject: [17500] Huntsville Alert
Message-ID: <199808131737.SAA18262@chuck.dallas.sgi.com>

Gang,

One of the instructors here are work called me on Sunday to fill in for a class this week in hopes that she would be back soon, but alas this is not to be, so I am tied up until late tomorrow.

What this means is that I will miss the flight and the trip to AL unless I want to spend \$700+ and go American Airlines.

So, can someone fill in for me on Saturday? Someone who has been on QRP-L since the first year and can give stories about the group. Surely someone with a sense of humor can entertain the troops for 50 mins. :-)

Any help greatly appreciated. I really really hate to miss this one. I was so looking forward to it, but I can't see a way around it as I have to cover another class next week also and this involves some more hours over the weekend setting things up.

Sometimes work gets in the way of the fun stuff. Been happening a lot lately. Only two weeks to go until Sabattical though. I see the light at the end of the tunnel but I think it's a train. ;-)

Sorry for the change of plans at the last minute.

I'll see if I can get the CW tape generated and FED-X'd to Gary by 8pm tonight. It will be sealed and you should see him open it up for the contest. :-)

dit dit

Chuck Adams K5FO Dallas,TX CP-60
<http://reality.sgi.com/adams> adams@sgi.com

Date: Thu, 13 Aug 1998 14:13:19 -0400
From: "Mike Czuhajewski" <mczuhajewski@evi-inc.com>

To: "QRP forum" <qrp-1@Lehigh.EDU>
Cc: <wa8mcq@erols.com>
Subject: [17501] Attenuator for amp: NO!
Message-ID: <199808131815.0AA10365@xanadu.evi-inc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

A little bit back, someone asked about cutting drive to an amp and someone replied:

"You want to put attenuators just in front of the input of the linear. Looks like 7db will bring a 5 watt signal down to 1 watt or just under. Store bought attenuators are not cheap. Newark has in their catalog a 20 watt rated attenuator that sums as much as 36db of attenuation. Don't know if this will fill your bill but it's the least expensive I've seen in their catalog. Newark Stock Number: 46F2332 at a cost of \$16.72 each. Enjoy!"

My reply to this is: DON'T DO IT!!! This sounded very suspicious--a 50 ohm RF attenuator with that description does NOT sell for anything like that price, not even on the surplus market. I checked the Newark catalog and sure enough, it's NOT something you'd use with an RF system. The item is actually for use with speaker systems (as in audio public address systems, etc). The catalog (#116, page 915) doesn't go into any detail at all, but it's quite obvious that it's an audio device, not RF. The impedance is not specified, but I can just about guarantee it's NOT 50 ohms, and it most certainly will NOT perform well in any RF application.

A variable attenuator with 10 positions and a rating of 20 watts would be really nice to have for RF use, and such a thing may possibly be available from some RF attenuator houses, most likely on special order only, but I'd shift over the decimal place in that price by one place to the right, and then multiply it by a high, single digit number :-). Variable RF attenuators (50, 75 ohms, etc) are NOT cheap in any case, and especially not if they handle significant amounts of power (meaning over a watt or so). Trust me, I know :-). I have a handful of catalogs to prove it.

(Please note my new address, which is wa8mcq@erols.com. The older wa8mcq@abs.net will be shut down shortly.)

73 and queue our pea DE WA8MCQ wa8mcq@erols.com

Date: Thu, 13 Aug 1998 12:16:14 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-1@Lehigh.EDU, cw@qth.net, cqclist@mtechnologies.com
Subject: [17502] Nye 330C Results
Message-ID: <199808131816.MAA11056@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

The bids for the new Nye Model 330C with single digit serial numbers have been tallied, and successful bidders have been notified.

The third highest bid was \$225, and the bidding was generally close enough that (a) I am confident that a truly fair market price was determined and (b) all of the single digit keys will be sold at that price.

That price also means that adequate funds will be available to endow a substantial annual award for encouraging the learning and use of Morse code. Your generosity is appreciated and is certain to help preserve this aspect of the hobby.

A big thank you to all who participated, and to the rest of you for the use of the bandwidth.

73
Marshall Emm
N1FN/VK5FN
n1fn@MorseX.com
Morse Express
"Everything for the Morse Enthusiast"
<http://www.MorseX.com>
(303)752-3382
--

Date: Thu, 13 Aug 1998 10:15:05 -0600
From: tom whalen <whalen@swcp.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Cc: Scotty <zydeco@communique.net>
Subject: [17503] QRP weekend and no spuds!
Message-ID: <35D30EDA.3201@swcp.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hello QRP-Ler's!!

My H.S. ham buddy came for a visit last week, so I decided the best thing to do was to take him to the mountains for a weekend of qrp'ing and fishing.

First thing we did was get the camper set up, which I always end up doing alone. My two sons quickly get on the ATV's and take off without a care in the world! Boy, to be a kid again!

We were going to go fishing but the water looked a lil muddy, so we decided to put up an antler in the 70' foot pines that were well spaced near the trailer.

We tried the slingshot and got the sinker up maybe 40 feet or so and thought that was a good enough effort for now. Made a few contacts on 40 and 20 using the off center fed zepp. Signals were fair, but nothing really boomin in.

I had brought the spud gun antenna launcher, but guess what I forgot? Yepper, the old spuds....figured I was doomed! We scratched our heads and came up with the idea of using an old pill bottle that my friend had. The bottle fit loosely in the spud gun and needed a lil shiming. Darn, forgot the tape too!!! So, I took the tape off of everything I could find off of my radios and taped the bottle till I could just see a whisper of daylight looking down the bore.

Soon it was time to give it a test shot! We put the pill bottle only about 2 inches into the bore. Lock and load.....FIRE!!!!!! The lil pill bottle went up about 30 feet!! Now I new this would work without blowing up in my face. Safety first ya know!

Now for the big test! Took the lid off of the pill bottle, put 3 nice size pebbles, and a nut with the fishing line into the bottle and put the lid back on. Shoved the bottle to the hilt....max range now!!

Loaded, aimed, fired....WOW!!!!!! First shot went over the top of a 70' pine no problem, came down the other side and landed on the ground just perfect!!! Now this is QRP camping at it's best!!

Sure had a good time, and from now on I don't need to steal the xyl's spuds! Going to put the old slingshot back into the attic, as I dont need it anymore!!

72, Tom WB5QYT....Enjoying QRP-L and QRP daily!

Tom Whalen
Albuquerque,NM

Date: Thu, 13 Aug 1998 11:29:43 -0700
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <qrp-1@Lehigh.EDU>
Subject: [17504] NorCal 20 Status
Message-ID: <01bdc6e8\$5786b440\$630a0d0a@doug.dpol.k12.ca.us>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gentlemen, you have been very patient with us on the NorCal 20 Status. Jim has been buried under a pile of orders, and is working them as fast as possible. But it takes a tremendous amount of time to work the orders, record them, deposit the checks, etc. Bear with us. We will let you know as soon as we know when they are sold out. When we sell out of the run, checks received after that time will be returned. Thank you again for your patience. 72, Doug, KI6DS

Date: Thu, 13 Aug 1998 15:12:50 -0400
From: Dale Scott <dcscott@us.ibm.com>
To: <qrp-1@Lehigh.EDU>
Subject: [17505] Ultimate Antenna Launcher
Message-ID: <50301000245261980000002L082*@MHS>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: quoted-printable

Tom Whalen's post this morning about his 'spud gun' experiences reminded me that I've been meaning to post the results of our groups efforts to build the ultimate antenna launcher for this past field day.

I've always stayed away from the typical 'spud gun' as I've heard of too many that blew up. One day I stumbled on an air powered version (<http://corin.com/bill/paintball/aircannon/>) that is quite safe. The air pressure is carefully controlled and need not exceed 100lbs while the tubing is

rated for 200lbs.

In preparation for field day, we build one of these 'air cannons' and mounted a fishing reel to the barrel with large hose clamps. After pumping up the air chamber, I inserted (open end first) a 3oz Dixie cup into the barrel for wading and pushed it to the bottom. I then dropped in a golf ball in which we had inserted a small eye screw which was attached to the fishing line with a swivel.

Bottom line - we put up 8 separate lines in no time at all. Amazingly accurate and we found we could easily clear 150' to 175' trees with 80lbs pressure. Our club has retired its bow and arrow.

72 - dale/w7hlo

Dale C. Scott
IBM -- Engineering Technology Solutions
(206) 587-2784 8/277-2784

Internet: (work) dcscott@us.ibm.com
(home) dcscott@ibm.net
OV/VM: dcscott@ibmusm54
=

Date: Thu, 13 Aug 1998 15:20:13 EDT
From: Robsparks@aol.com
To: qrp-l@Lehigh.EDU
Subject: [17506] SGC 2020 info?
Message-ID: <4c6d94b4.35d33c6e@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hello folks,

Can anyone point me to a review of the new SGC 2020 semi-qrp rig? Has anyone had favorable/unfavorable experience with them? Please respond directly to me instead of the list.

Thanks in advance!

Bob AB5ZD

Date: Thu, 13 Aug 1998 15:47:25 -0400
From: "rrhensel" <rrhensel@sprintmail.com>
To: "qrp-l" <qrp-l@Lehigh.EDU>
Subject: [17507] Re: Request PIC Programming information.
Message-ID: <000201bdc6f8\$b9832290\$0317e590@nos_rrhensel>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Specifically where?

I kinda looked around and found the programming tools but noplac to order a CD

>Ronald,
>
>Microchip will give you, for free, a CD rom that contains a complete
>selection of technical literature on all the PIC chips, memory devices,
>and software to program the various products. You can call them at
>(606) 786-7200 or order from www.microchip.com.
>
>73,
>
>Richard Kendrick N7NT
>wa7twi@primenet.com
>
>

Date: Thu, 13 Aug 1998 21:33:33 +0200
From: DL1FDF/VY1QRP <bauer@student.uni-kassel.de>
To: Paul Harden <pharden@aoc.nrao.edu>
Cc: qrp-l@Lehigh.EDU, GQRP-L List <gqrp-l@blacksheep.org>
Subject: [17508] Re: GQRP - UPDATE: SOHO Status
Message-ID: <35D33F8D.F3EB17FC@student.uni-kassel.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

WOW, this story was a thrill to me!

THUMBS UP guys and tnx fer all your work to it..

73-1 de steve dl1fdf / vy1qrp

Date: Thu, 13 Aug 1998 15:50:41
From: Roger Braker <msebrakr@telepath.com>
To: qrp-1@Lehigh.EDU
Subject: [17509] Re: No-qrp
Message-ID: <3.0.5.16.19980813155041.4927aed0@telepath.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I think I was not clear on what I was trying to say. I really know he's got a good sense of humor but I guess it didn't come out that way my e-mail. See ya guys.

73,
Arnold kd5ckh
At 10:32 PM 8/12/98 EDT, you wrote:
>In a message dated 98-08-12 18:35:30 EDT, you write:
>
><<
> He aslo has a "noqro) page. It says about the same thing as the noqrp
> page. I think this guys has a screw loose:-) CUL >>
>
>
> i recognize this guy from one of the other reflectors, i think his page is
>a sarcastic spoof on the anti-this/ anti-that groups that seem to keep
popping
>up all over the place. i think its funny. hes smart enough to realize that
>peoples interests are peoples interests and that wont change. i get the
joke,
>i kinda think like that anyway. theres a big anti-cw movement going on right
>now and its causing a big uproar on the cw reflector (of course). thats why
>i'll never abandon this list...its nice and quiet here.
> anyway, KH2D is not a wacko, just opinionated....with a sense of humor.
its
>just not for everybody. no worries. 73...Adam, AB7WY

>
> p.s. sorry about the repost chuck, its easier than re-typing it. :-)
>
>
>
>
>
>

Date: Thu, 13 Aug 1998 16:03:24 -0500
From: applitech@mcg.net (Claton Cadmus)
To: "QRP-1" <qrp-1@Lehigh.EDU>
Subject: [17510] Getting started programming PIC's
Message-ID: <017d01bdc6fd\$d3485380\$a10a5e2c@groucho>

Gang,

I'm looking for recommendations on books, programming hardware and Webster
useful to the beginner getting involved with PIC chips and their programming.

All help appreciated.

Thanks and 73 de KA0GKC Claton Cadmus
cla@mcg.net

Date: Thu, 13 Aug 1998 14:03:57 -0700 (PDT)
From: Stephen Lee <slee@u.washington.edu>
To: Mike Czuhajewski <mczuhajewski@evi-inc.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [17511] Re: Attenuator: NO!/Pic Prgmr
Message-ID: <Pine.A41.3.95b.980813133702.180830A-100000@homer35.u.washington.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Mike is correct in that the attenuator I referenced out of the
Newark catalog, Stock # 46F2332, price \$16.72, will probably
fail miserably at radio frequencies. And we both agree that
store bought attenuators are not cheap. I had been conversing
with an employee here, Patrick, KA7LXI, about his interest in
a remote control for PA systems. His idea was to multiplex the

control signal over our broadband cable system. Evidently I fired off a post to the qrp-l group thinking I was responding to Patrick, KA7LXI. OK, my fault and my sincerest apologies.

Back on February 7, 1998, Chuck Carpenter, W5US, sent a concise yet detailed description of how to design and build a 3db attenuator pad. Check the QRP-L archives.

On a related note :), the September '98 issue of "Electronics Now" has a feature article on, guess what, attenuators!!! The material looks to be very similar to what's in the ARRL Handbook.

In that same issue of "Electronics Now" is another article on building a "no parts" PIC programmer. Does require a transistor, 25-pin D-connector and a few resistors though. Enjoy!

de AB7HI, Stephen Lee, Federal Way, WA

Date: Thu, 13 Aug 1998 15:04:26 -0600
From: jaywa5whn@juno.com
To: qrp-l@Lehigh.EDU
Subject: [17512] 10 meters beacons / Lots of qrp beacon stns
Message-ID: <19980813.150509.6414.0.jaywa5whn@juno.com>

<http://members.xoom.com/wd4ngb/10mtr.htm>

Check out the above url {beacon list; note the number of qrp beacons}.

Wahoo !! 6 & 10 meters are back, at least into grid square DM65 {north central New Mexico USA}. Lots of sporadic E & occasional tropo E. It would appear the gray line is the best time {dawn & dusk} local time.

@ T - minus 16 days & counting until "Bubba"
<http://www.dancris.com/~ki7mn/bubba98.htm/>

72...Jay, WA5WHN DM65qd Albuquerque, NM USA

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 13 Aug 1998 16:33:35 -0500
From: Ryan <ryans@willinet.net>
To: qrp-1@Lehigh.EDU
Subject: [17513] Where to get crystals? (cheap)
Message-ID: <35D35BAF.FB6@willinet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello. Does anyone have a good source for cheap qrp frequency crystals? 3.579MHz is a good cheap one, because they are widely available. I can get them for \$.79 a piece, but there is a \$5 shipping charge. Anyone have a better source? I need 5 or 6 of them. Thanks a lot for any help.

Ryan

Date: Thu, 13 Aug 1998 16:35:11 -0500
From: applitech@mcg.net (Claton Cadmus)
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [17514] Re: Getting started programming PIC's
Message-ID: <01b001bdc702\$5c13b7a0\$a10a5e2c@groucho>

! Spell Checker!

>Gang,
>
>I'm looking for recommendations on books, programming hardware and "web sites"
>useful to the beginner getting involved with PIC chips and their programming.
>
>All help appreciated.
>
>Thanks and 73 de KA0GKC Claton Cadmus
>cla@mcg.net

Date: Thu, 13 Aug 1998 16:35:46 cdt
From: wj5o@juno.com (William H. Hays)
To: QRP-L@Lehigh.EDU, TENTEN-L@Lehigh.EDU
Subject: [17515] Help! Stancor Transformer
Message-ID: <19980813.163547.4998.1.WJ50@juno.com>

Help again is needed. I'm constructing the one tube regenerative receiver from the ARRL 1955 Handbook.
The schematic calls for a Interstage audio transformer (Stancor A-4723)
Is there a URL where I can find the turns ratio or specs on old Stancor equipment?
I suspect it might be about 1:1 since it's used between the PLATE on one side of a 6SN7 tube thru the re-gen coil to the re-gen pot on the secondary side and feeds the GRID on the Secondary side (other side of tube)
Any help will be appreciated.
TNX & 73 Bill WJ50

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 13 Aug 1998 14:49:38 -0700
From: gsurrency@juno.com (Gary L Surrency)
To: qrp-l@Lehigh.EDU
Subject: [17516] Re: elmer101 audio instability
Message-ID: <19980813.145247.3582.2.gsurrency@juno.com>

Dub,

Several questions come to mind concerning your audio oscillation:

Does it do this when not mounted in a case or enclosure? Or are you using Dave's enclosure? Sometimes ground loops occur when electrically grounding the ground foil of the PCB in more than one place.

Have you isolated the headphone jack from ground to allow the Left and Right channels to be fed in series for more audio output with headphones?

Both of my rigs will quietly drive any headphone I've tried, and the stock NE5532 chip even produces sufficient audio to drive a small loudspeaker without any oscillation. Some hum occurs with the headphones with certain positioning of the headphone leads during transmit, and mere repositioning of the leads stop this, but no oscillation has been noted. This is common sometimes when using 110 volt power for the DC power supply.

What kind of power supply and voltage are you using? Is it well filtered and RF decoupled? Does it oscillate with a 12v battery supply? Does the rig and outboard audio amp share the same circuit or outlet. Is the rig and amp properly grounded?

Are there any capacitors in the audio path that seem overly microphonic? Tap the lil buggers and see if any of them are really bad or noisy. I replaced C20 and C21 with mylar ones in my rig.

Does this happen with only an antenna and signals, or will it do it with dummy load operation when listening to another closeby rig's signals, as in while transmitting with some other rig in your shack and receiving the strong nearby signals?

Can you try another op-amp for U5 if you have one? You can also use a different chip like the TL082, although the audio level will be slightly less. If you have the LMC662CN cmos chip from the QRP-L group buy, you should use a higher audio load impedance and put the L and R headphone channels in series, or it will almost certainly oscillate, as others have mentioned.

Are you using a resonant antenna, or a tuner, or a tuner with balanced feedline?

Make sure the PCB board is clean and free of soldering flux, as the gain is so high with the dual op-amp that practically any contamination will combine with moisture and allow resistive feedback across the traces. This was also noted with the Norcal 38 Special since it used the same NE5532 chip configured for high gain. Use alcohol or acetone (careful with that stuff) and thoroughly clean off all the flux.

I found on one of my 38 Special rigs, a 0.1 uf cap stretched across pins 8 and 4 of the NE5532 on the bottom of the PCB was necessary to calm things down.

Lastly, check the components to be sure you didn't get a bad component or misplace a resistor or cap somewhere.

Also, short leads on the components and connector wiring is always good

practice to keep things stable.

I've had no problems feeding the audio output to a R/S DSP to increase the audio level and help with QRN / QRM. Even when using the unshielded red and black audio cable that came with the R/S DSP, I've had no hum or feedback.

I hope these ideas help you quiet it down. Neither of my rigs have misbehaved in this manner on audio, just with RF at higher power levels and I solved that with the FET mod.

Good luck and 72,

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Thu, 13 Aug 1998 14:59:25 -0700
From: Andy Fox <foxes@theriver.com>
To: applitech@mcg.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17517] Re: Getting started programming PIC's
Message-ID: <35D361BD.E0F83002@theriver.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Claton,

Try this page at Microchip:
<http://www.microchip.com/10/Lit/PICmicro/index.htm>

Parallax uses PICs in their BASIC Stamps. Parallax has a special, advertised on page 4 of the August 1998 "Nuts and Volts" where one can get a book, CD-ROM, BASIC Stamp and programming cable for \$59. The ad says that this is good through the end of August. Maybe there's more at www.parallaxinc.com.

standard disclaimers, etc. ad nauseum

--

72/73 de Andy, KK7HV - QRP-L #1286 - Tucson, AZ

Date: Thu, 13 Aug 1998 18:12:23 -0400 (EDT)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: towertalk@contesting.com, antennas@qth.net, QRP-L List <qrp-l@Lehigh.EDU>, gqrp-l@blacksheep.org
Subject: [17518] Voltage Feeding SCV Loops
Message-ID: <Pine.GS0.3.96.980813180857.13187A-100000@larry.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

For those interested in SCVs (deltas, rectangles, and half squares, all set up for max vertically polarized radiation for lesser gain but a low TO angle), I have just added a short note on how to feed the loop models at a voltage node (bottom center) to make feeding more convenient and permit use of the antenna as a somewhat more effective "all-band" antenna as well. I hope the notes are useful to someone. URL below.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off) (423) 974-7215
1434 High Mesa Drive	/	\	\	----	/	---	(Hm) (423) 938-6335
Knoxville, Tennessee	/\	\	\	/	/		(FAX) (423) 974-3509
37938-4443 USA	/	\	\	\			cebik@utk.edu
URL:	http://web.utk.edu/~cebik/radio.html						

Date: Thu, 13 Aug 1998 22:14:54 +0000
From: "Brian K. Short" <bshort@speedchoice.com>
To: qrp-l@Lehigh.EDU
Subject: [17519] FS: Sierra w/KC1 and Modules
Message-ID: <199808132214.PAA02254@mail.phoenix.speedchoice.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

FS: Sierra w/KC1 and Modules

FS: Wilderness Sierra w/KC1 and Modules
(80, 40, 30, 20, 15m). Very clean and expertly

constructed.

Reluctantly selling to fund antenna construction
at rural property, \$305 shipped (US).

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Brian Short k7on@qsl.net <http://www.qsl.net/k7on>
(602)839-3484 1994 E Laguna Dr Tempe, Az 85282

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"Why is it a penny for your thoughts, but you put your two
cents in? Someone is making a profit on this." -- Steven Wright

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Date: Thu, 13 Aug 1998 15:50:47 -0700
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <qrp-1@Lehigh.EDU>
Subject: [17520] Pacificon is coming!!
Message-ID: <01bdc70c\$d014c900\$630a0d0a@doug.dpol.k12.ca.us>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

A reminder that the 4th annual NorCal QRP Forum will be held again at
Pacificon in Concord, CA on Oct. 16, 17 & 18th this year. They have moved
the convention to a bigger and better hotel, the Sheraton, and the forum
rooms are much larger. Last year our 'room' would only seat 125, and was
filled to SRO every session. This year, we have a room that will seat 200
for the first 6 sessions, and then we have a room that will seat 500 for Roy
Lewallen's presentation. The guys at Pacificon have responded wonderfully
to our requests and their efforts are appreciated.

Don't forget the following QRP Activities at Pacificon:

Friday, 6 PM No Host Dinner. We will all meet in the lobby of the hotel and
then go to dinner as a group. This is a blast, and usually lasts for 2 to 3
hours. Then we all return to the hotel for QRP visiting in groups in the
lobby and various hotel rooms.

Saturday QRP Forums:

8:00 Bill Jones, KD7S "Building QRP Enclosures the easy and cheap way"
9:00 Joe Gervais, AB7TT "How to have fun with QRP contests in the field"
10:00 Paul Harden, NA5N "Solar Predictions and How to Interpret the Data"
11:00 Dave Fifield, AD6AY, "Designing the NorCal 20"
12:00 Lunch on your own

1:00 Ade Weiss, W0SRP, "How to use propagation information"
2:00 George Dobbs, G3RJV, "The G3RJV Six Pack"
3:00 Roy Lewallen, W7EL, "Operating Field Day QRP"
4:00 Roy Lewallen, W7EL, "Using Antenna Software to Design QRP Antennas"

Then we will come back at 7:00 for the NorCal Open House for QRPers. During that time, Chuck Adams, K5FO, will host the CW copying and sending contest, we will judge the NorCal Transistor Rig Building Contest, the K5FO unlimited building contest, and the K8FF Paddle contest. We also plan on taking a picture of homebrew rigs piled on a table similar to the one that we took at Zuni Loop several years ago. Please bring something with you that you have built so that you can add it to the "Picture Pile". Also, we want to see what you have built. Bring it and show it off.

Remember, the Sheraton is a first class hotel. They don't raise the prices, they lower them to give the convention goers a break. This is not a Day's Inn Dayton South Rip Off. Plus, there is NO Charge whatsoever for the Qrp Forums, unlike Dayton. ALL QRP activities are free (* You must register for the convention, \$5 for all three days) but we don't charge at all for the World Class Forums at Pacificon, sponsored by the NorCal QRP Club.

Jim and I are anxious to see all of you there. Hotel accomadations should be made individually by calling the Sheraton Hotel in Concord, CA. Be sure to ask for the special Convention rate for Pacificon. 72, Doug, KI6DS

Date: Thu, 13 Aug 1998 17:58:23 -0500 (EST)
From: bob evinger <revinger@marshallonline.com>
To: Edward A Kwik jr <eakwikjr@hti.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [17521] Re: Elmer Sprint
Message-ID: <Pine.LNX.3.96.980813175452.530B-100000@WD9EKA.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Okay, I am relatively new to the list and I do keep hearing references to the elmer type things. Last night I was on 40 and heard wa8rxl calling, didnt answer because I wasnt sure what it was. Did manage a nice qso with a guy running 100 watt qro down in marietta,ga. He seemed interested in the fact that I was only running 3 watts and had an s7 signal from east central Illinois.

Anyway can someone point me to what the elmer stuff is? I have been trying to make at least one contact a night to get my code speed back up and this might be something to help in that venture, maybe?

tnx
bob

Bob Evinger		19250 N. Livingston Road		revinger@marshallonline.com
WD9EKA		Marshall, IL 62441		

End of QRP-L Digest 1182
